010392

IMPORTANT MANUAL Do Not Throw Away

Poulan PRO™

"1992"

ORIGINAL FILE COPY

OWNER'S MANUAL

MODEL:

PP16H44A

YARD TRACTOR

⚠WARNING:
Read the Owner's Manual and follow all Warnings and Safety Instructions. Failure to do so can result in serious injury.

Always Wear Eye Protection During Operation

POULAN PRO
Shreveport, Louisiana 71139-9329

SAFETY RULES

Safe Operation Practices for Ride-On Mowers

IMPORTANT: THIS CUTTING MACHINE IS CAPABLE OF AMPUTATING HANDS AND FEET AND THROWING OBJECTS FAILURE TO OBSERVE THE FOLLOWING SAFETY INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH

I. GENERAL OPERATION

- Read, understand, and follow all instructions in the manual and on the machine before starting.
- Only allow responsible adults, who are familiar with the instructions, to operate the machine.
- Clear the area of objects such as rocks, toys, wire, etc., which could be picked up and thrown by the blade.
- Be sure the area is clear of other people before mowing. Stop machine if anyone enters the area.
- Never carry passengers.
- Do not mow in reverse unless absolutely necessary. Always look down and behind before and while backing.
- Be aware of the mower discharge direction and do not point it at anyone. Do not operate the mower without either the entire grass catcher or the guard in place.
- Slow down before turning.
- Never leave a running machine unattended. Always turn off blades, set parking brake, stop engine, and remove keys before dismounting.
- Turn off blades when not mowing.
- Stop engine before removing grass catcher or unclogging chute.
- Mow only in daylight or good artificial light.
- Do not operate the machine while under the influence of alcohol or drugs.
- Watch for traffic when operating near or crossing roadways.
- Use extra care when loading or unloading the machine into a trailer or truck.

II. SLOPE OPERATION

Slopes are a major factor related to loss-of-control and tipover accidents, which can result in severe injury or death. All slopes require extra caution. If you cannot back up the slope or if you feel uneasy on it, do not mow it.

DO:

- Mow up and down slopes, not across.
- Remove obstacles such as rocks, tree limbs, etc.
- Watch for holes, ruts, or bumps. Uneven terrain could overturn the machine. *Tall grass can hide obstacles.*
- Use slow speed. Choose a low gear so that you will not have to stop or shift while on the slope.
- Follow the manufacturer's recommendations for wheel weights or counterweights to improve stability.
- Use extra care with grass catchers or other attachments. These can change the stability of the machine.
- Keep all movement on the slopes *slow* and *gradual*. Do not make sudden changes in speed or direction.
- Avoid starting or stopping on a slope. If tires lose traction, disengage the blades and proceed slowly *straight* down the slope.

DO NOT:

- *Do not* turn on slopes unless necessary, and then, turn slowly and gradually downhill, if possible.
- *Do not* mow near drop-offs, ditches, or embankments. The mower could suddenly turn over if a wheel is over the edge of a cliff or ditch, or if an edge caves in.
- *Do not* mow on wet grass. Reduced traction could cause sliding.
- *Do not* try to stabilize the machine by putting your foot on the ground.
- *Do not* use grass catcher on steep slopes.

III. CHILDREN

Tragic accidents can occur if the operator is not alert to th presence of children. Children are often attracted to the machin and the mowing activity. *Never* assume that children will rema where you last saw them.

- Keep children out of the mowing area and under the watchf care of another responsible adult.
- Be alert and turn machine off if children enter the area.
- Before and when backing, look behind and *down* for sma children.
- Never carry children. They may fall off and be seriousl injured or interfere with the safe machine operation.
- Never allow children to operate the machine.
- Use extra care when approaching blind corners, shrubs trees, or other objects that may obscure vision.

IV. SERVICE

- Use extra care in handling gasoline and other fuels. The are flammable and vapors are explosive.
  - Use only an approved container.
  - Never remove gas cap or add fuel with the engin running. Allow engine to cool before refueling. Do nc smoke.
  - Never refuel the machine indoors.
  - Never store the machine or fuel container inside wher there is an open flame, such as a water heater.
- Never run a machine inside a closed area.
- Keep nuts and bolts, especially blade attachment bolts, tig and keep equipment in good condition.
- Never tamper with safety devices. Check their prope operation regularly.
- Keep machine free of grass, leaves, or other debris build-up Clean oil or fuel spillage. Allow machine to cool befor storing.
- Stop and inspect the equipment if you strike an object Repair, if necessary, before restarting.
- Never make adjustments or repairs with the engine running
- Grass catcher components are subject to wear, damage and deterioration, which could expose moving parts or allow objects to be thrown. Frequently check components and replace with manufacturer's recommended parts, when necessary.
- Mower blades are sharp and can cut. Wrap the blade(s) or wear gloves, and use extra caution when servicing them.
- Check brake operation frequently. Adjust and service as required.

Look for this symbol to point out important safety precautions. It means CAUTION!!! BECOME ALERT!!! YOUR SAFETY IS INVOLVED.

CAUTION: Always disconnect spark plug wire and place wire where it cannot contact spark plug in order to prevent accidental starting when setting up, transporting, adjusting or making repairs.

;RATULATIONS on your purchase of a new tractor. been designed, engineered and manufactured to ou the best possible dependability and performance.

d you experience any problem you cannot easily ly, please contact your nearest Authorized Service y. They have competent, well-trained technicians ie proper tools to service or repair this unit.

e read and retain this manual. The instructions will e you to assemble, operate, and maintain your unit rly. Always observe the "SAFETY RULES".

)EL
IBER PP16H44

IAL
IBER _____

E OF PURCHASE _____

MODEL AND SERIAL NUMBERS WILL BE FOUND A PLATE UNDER THE SEAT.

I SHOULD RECORD BOTH SERIAL NUMBER AND E OF PURCHASE AND KEEP IN A SAFE PLACE FUTURE REFERENCE.

STOMER RESPONSIBILITIES

tead and observe the safety rules.

ollow a regular schedule in maintaining, caring for and sing your unit.

ollow the instructions under "Customer Responsibili-es" and "Storage" sections of this owner's manual.

PRODUCT SPECIFICATIONS

HORSEPOWER:	16.0
GASOLINE CAPACITY:	3.5 GALLONS UNLEADED REGULAR
OIL (3.5 PINTS W/O FILTER): (4.0 PINTS WITH FILTER):	SAE 30 (Above 32°F) 5W-30 (Below 32°F)
SPARK PLUG (GAP.025 IN.):	CHAMPION RV-15YC
VALVE CLEARANCE:	SEE ENGINE MANUAL
GROUND SPEED:	FORWARD: 0-5.2 MPH REVERSE: 0-1.72 MPH
TIRE PRESSURE:	FRONT: 14 PSI REAR: 10 PSI
CHARGING SYSTEM:	15 AMPS @ 3600 RPM
BLADE BOLT TORQUE:	30-35 FT. LBS.

WARNING: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered or grass-covered land unless the engine's exhaust system is equipped with a spark arrester meeting applicable local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the operator.

In the state of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest Authorized Service Center (See REPAIR PARTS section of this manual).

TABLE OF CONTENTS

SAFETY RULES 2
PRODUCT SPECIFICATIONS 3
CUSTOMER RESPONSIBILITIES 3,15-18
WARRANTY 5
TABLE OF CONTENTS 4
INDEX 4
ASSEMBLY 7-10
OPERATION 11-14
MAINTENANCE SCHEDULE 15
SERVICE AND ADJUSTMENTS 19-24
STORAGE 25
TROUBLESHOOTING 26-27
REPAIR PARTS - TRACTOR 28-43
PARTS ORDERING/SERVICE ..... BACK PAGE

INDEX

A

Adjustments:
- Brake 21
- Carburetor 24
- Mower
  - Front-To-Back 20
  - Side-To-Side 19
- Throttle Control Cable 24

Air Filter, Engine 18
Air Screen, Engine 18
Assembly 7-10

B

Battery:
- Charging 8
- Cleaning 16
- Installation 10
- Levels 8,16
- Preparation 8
- Starting with Weak Battery 23
- Storage 25
- Terminals 16

Belt:
- Mower Drive 21
- Motion Drive
  - Removal/Replacement 22
- Mower Blade Drive
  - Removal/Replacement 21

Blade:
- Sharpening 16
- Replacement 16

Brake Adjustment 21

C

Carburetor Adjustment 24
Controls, Tractor 11
Customer Responsibilities 3,15-18
- Engine:
  - Air Filter 18
  - Air Filter Foam Pre-Cleaner 18
  - Air Screen, Engine 18
  - Battery 18
  - Cooling Fins, Engine 18
  - Engine Oil 18
  - Fuel Filter 18
  - Spark Plugs 18
- Tractor:
  - Blade 16
  - Lubrication Chart 15
  - Maintenance Schedule 15
  - Tire Care 8,16,23

Cutting Height, Mower 12

E

Electrical:
- Schematic 44

Engine:
- Air Filter 18
- Air Filter Foam Pre-Cleaner 18
- Air Screen 18
- Cooling Fins, Engine 18
- Oil Change 18
- Oil Level 13,18
- Oil Type 18
- Preparation 13
- Starting 14
- Storage 25

F

Filter:
- Air Filter 18
- Air Filter Foam Pre-Cleaner 18
- Fuel 18

Fuel:
- Type 14
- Storage 25

Fuse 23

H

Hood Removal/Installation 23

L

Leveling Mower Deck 19-20
Lubrication:
- Chart 15

M

Maintenance Schedule 15
Mower:
- Adjustment, Front-to-Back 20
- Adjustment, Side-to-Side 19
- Blade Sharpening 16
- Blade Replacement 16
- Cutting Height 12
- Installation 9
- Operation 14
- Removal 19

Mowing Tips 14
Muffler 18
- Spark Arrester 3,33

O

Oil:
- Cold Weather Conditions 13,18
- Engine 18
- Storage 25

Operation 11-14
Operating Mower 13
Options:
- Spark Arrester 3,33

P

Parking Brake 12
Parts Bag 6
Parts, Replacement/Repair 28-43
Product Specifications 3

R

Repair Parts 28-43

S

Safety Rules 2
Seat 8
Service and Adjustments 19-22
- Carburetor 24
- Fuse 23
- Hood Removal/Installation 23
- Motion Drive Belt
  - Removal/Replacement 22
- Mower Blade Drive Belt
  - Removal/Replacement 21
- Mower Adjustment
  - Front- to-Back 20
  - Side-to-Side 19
- Mower Removal 19
- Tire Care 8,16,23

Spark Plugs 18
Specifications 3
Starting the Engine 14
Steering Wheel 7,22
Stopping the Tractor 12
Storage 25

T

Throttle Control Cable
- Adjustment 24

Tires 8,16,23
Trouble Shooting Chart 26-27
Transmission:
- Cooling 17

Transaxle:
- Cooling 17
- Pump Fluid Level 17
- Repair Parts. 42-43

W

Warranty 5
Wiring Schematic 44

LIMITED WARRANTY

ıe Manufacturer warrants to the original consumer purchaser that this product as manufactured is free om defects in materials and workmanship. For a period of two (2) years from date of purchase by the iginal consumer purchaser, we will repair or replace, at our option, without charge for parts or labor curred in replacing parts, any part which we find to be defective due to materials or workmanship. This 'arranty is subject to the following limitations and exclusions.

This warranty does not apply to the engine, transaxle/transmission components, battery (except as noted below) or components parts thereof. Please refer to the applicable manufacturer's warranty on these items.

Transportation charges for the movement of any power equipment unit or attachment are the responsibility of the purchaser. Transportation charges for any parts submitted for replacement under this warranty must be paid by the purchaser unless such return is requested by the Manufacturer.

Battery Warranty: On products equipped with a Battery, we will replace, without charge to you, any battery which we find to be defective in manufacture, during the first year of ownership. After one year, we will exchange the Battery, charging you 1/12 of the price of a new Battery for each full month after one (1) year from the date of the original sale. Battery must be maintained in accordance with the instructions furnished.

- The Warranty period for any products used for rental or commercial purposes is limited to ninety (90) days from the date of original purchase.
- This Warranty applies only to products which have been properly assembled, adjusted, operated, and maintained in accordance with the instructions furnished. This Warranty does not apply to any product which has been subjected to alteration, misuse, abuse, improper assembly or installation, delivery damage, or to normal wear of the product.
- Exclusions: Excluded from this Warranty are belts, blades, blade adapters, normal wear, normal adjustments, standard hardware and normal maintenance.
- In the event you have a claim under this Warranty, you must return the product to an authorized service dealer.

hould you have any unanswered questions concerning this Warranty, please contact:

In U.S.A. contact:
Poulan/Weed Eater
Service Department
P.O. Box 9329
Shreveport, LA 71139-9329
Phone: (318) 687-0100

In Canada contact:
Poulan/Weed Eater
549 Canada Avenue
Huron Park, Ontario
Canada NOM1Y0
Phone: (519) 228-6514

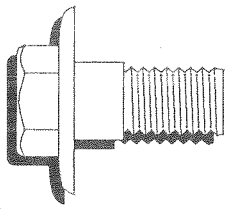
ving the model number, serial number and date of purchase of your product and the name and address of ıe authorized dealer from whom it was purchased.

HIS WARRANTY DOES NOT APPLY TO INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY MPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR OUR XPRESSED WARRANTIES. Some areas do not allow the limitation of consequential damages or limitaons of how long an implied Warranty may last, so the above limitations or exclusions may not apply to you. his Warranty gives you specific legal rights, and you may have other rights which vary from locale to cale.

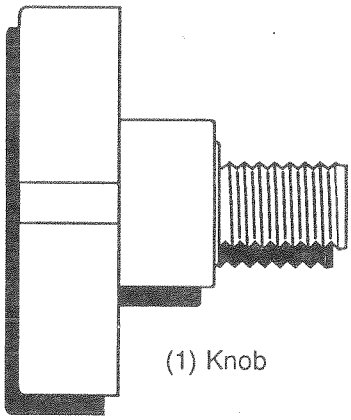
his is a limited Warranty within the meaning of that term as defined in the Magnuson-Moss Act of 1975.

CONTENTS OF HARDWARE PACK

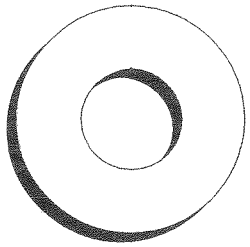
Parts Bag contents shown full size



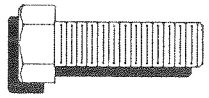
(1) Shoulder Bolt 5/16-18



(1) Knob



(1) Washer 17/32 x 1-3/16 x 12 Ga.

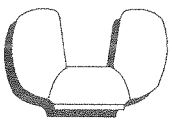


(2) Hex Bolts 1/4 - 20 x 3/4

(2) Hex Nuts 1/4 - 20

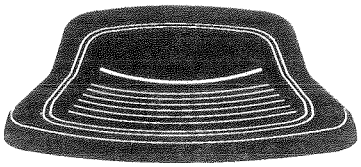
(2) Washers 9/32 x 5/8 x 16 Ga.

(2) Lock Washers 1/4

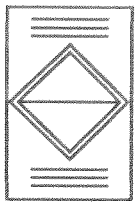


(2) Wing Nuts 1/4 - 20

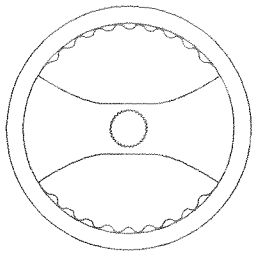
Parts packed separately in carton



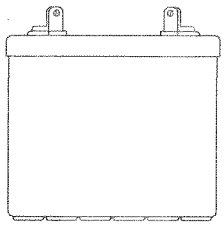
Seat



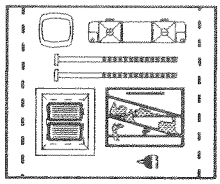
Battery acid



Steering Wheel



Battery

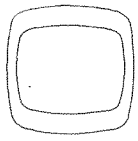


Parts Bag

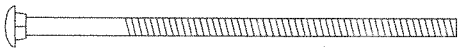
Owner's Manual

Parts bag contents not shown full size

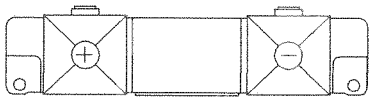
(2) Keys



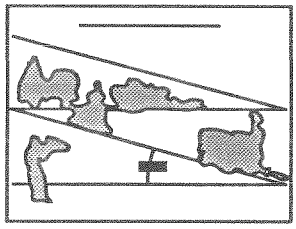
Steering Wheel Insert



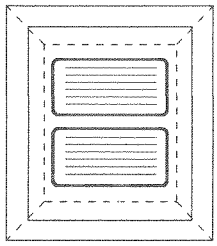
(2) Battery Carriage Bolts 1/4-20 x 7-1/2



Terminal Guard



15° Slope Sheet



Battery Caps and Instructions

ASSEMBLY

)LS REQUIRED FOR ASSEMBLY

:ket wrench set will make assembly easier. Standard ch sizes are listed.

'/16" wrenches	(1) Tire pressure gauge
i/4" wrench	(1) Screwdriver
/2" wrench	(1) Utility Knife

n right and left hand is mentioned in this manual, it is when you are in the operating position (seated id the steering wheel).

REMOVE UNIT FROM CARTON

PACK CARTON

Remove all accessible loose parts and parts cartons rom carton (See page 6).

Cut along dotted lines on the carton, from top to bottom, ill four corners of carton and lay panels flat.

Remove mower deck from skid.

Check for any additional loose parts or cartons and emove.

FORE ROLLING UNIT OFF SKID

'ACH STEERING WHEEL (See Fig. 1)

Remove hex locknut and large flat washer from steering shaft.

Position front wheels of the tractor so they are pointing straight forward.

Position steering wheel so cross bars are horizontal left to right) and slide onto adapter.

Secure steering wheel to steering shaft with hex locknut and large flat washer previously removed. Tighten securely.

Snap insert into center of steering wheel.

Remove protective plastic from tractor hood and grill.

)RTANT: CHECK FOR AND REMOVE ANY STAPLES KID THAT MAY PUNCTURE TIRES WHERE UNIT IS ROLL OFF SKID.

e Fig. 2)

Raise attachment lift lever to its highest position.

Release parking brake by depressing clutch/brake pedal.

Place motion control lever in "NEUTRAL" position.

Move freewheel control to freewheeling position.

Roll unit backwards off skid.

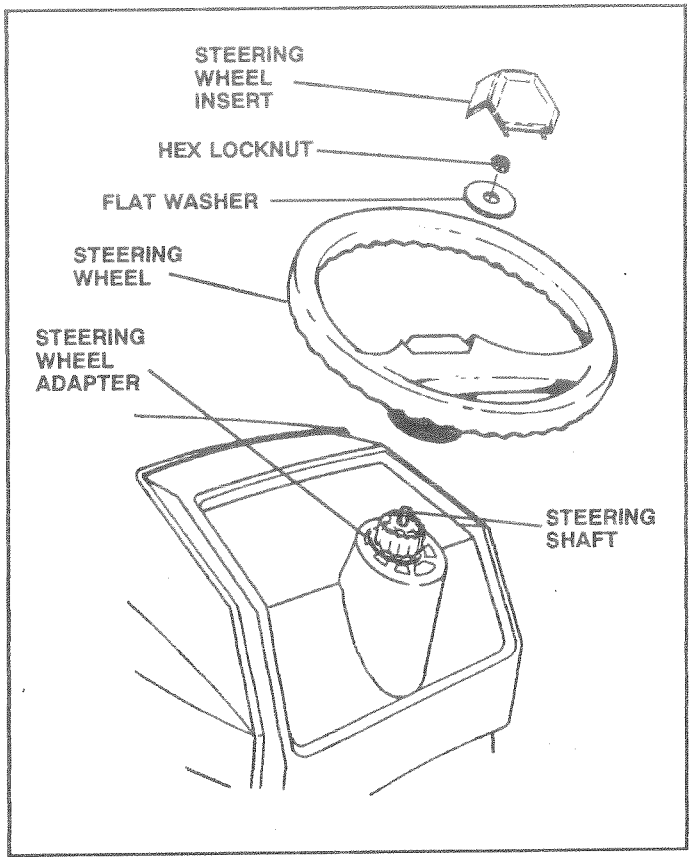


FIG. 1

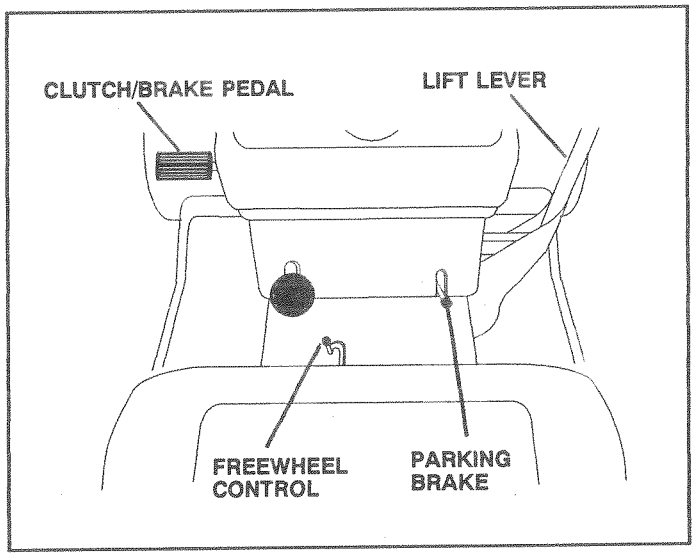


FIG. 2

ASSEMBLY

HOW TO SET UP YOUR TRACTOR

PREPARE BATTERY (See Fig. 3)

CAUTION: Wear eye and face shield.

Wash hands or clothing immediately if accidentally in contact with battery acid.

Do not smoke. Fumes from charged battery acid are explosive.

Read the instructions included with the battery vent caps. Always wear gloves, clothing and goggles to protect your hands, skin and eyes.

Your unit has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend its life.

- See instructions packed with vent caps in parts bag.
- Fill battery with acid. Fill each cell until it reaches the bottom of the vent wells. Do not overfill.
- Allow battery to stand and settle for at least thirty minutes. After standing, check the level of acid. If below the vent wells, add more acid until the correct level is reached.

While battery is standing (after adding acid) and later, while battery is being charged, continue with assembly of unit.

IMPORTANT: TO MAXIMIZE THE LIFE OF YOUR BATTERY, IT IS NECESSARY THAT THE BATTERY BE CHARGED BEFORE USE. FAILURE TO CHARGE BATTERY CAN RESULT IN A SHORTENED BATTERY LIFE.

- Charge battery at a rate of 6 amperes for 1 hour. Use a 12 volt battery charger. Observe all safety precautions required for battery charging.
- Check the acid level after the battery is charged. If the acid has fallen below the correct level, add distilled or iron free water.
- Install the vent caps to cover the vent wells. Wash the top of the battery with water to remove any acid, then wipe dry.
- Check battery case for leakage to make sure that no damage has occurred in handling.
- Dispose of excess battery acid. Neutralize acid for disposal by adding it to four inches of water in a five gallon plastic container. Stir with a wooden or plastic paddle while adding baking soda until the addition of more soda causes no more foaming.
- Follow instructions on how to install battery.

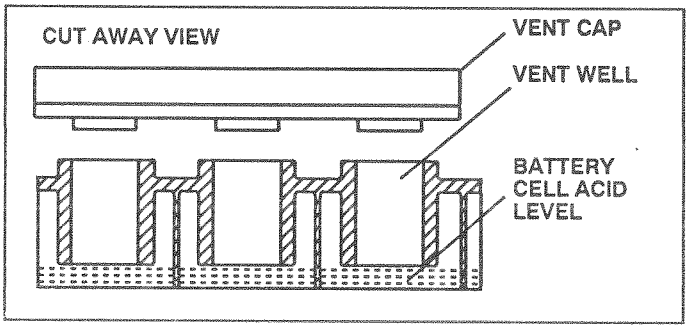


FIG. 3

INSTALL SEAT (See Fig. 4)

Seat position should be adjusted forward or backward s that the operator can comfortably reach clutch/brake peda and safely operate the tractor.

- Remove cardboard packing on seat pan.
- Place seat on seat pan and assemble shoulder bolt.
- Assemble adjustment knob and flat washer loosely. D not tighten.
- Tighten shoulder bolt securely.
- Lower seat into operating position and sit on seat.
- Slide seat until a comfortable position is reached whic allows you to press clutch/brake pedal all the way down
- Get off seat without moving it's adjusted position.
- Raise seat and tighten adjustment knob securely.

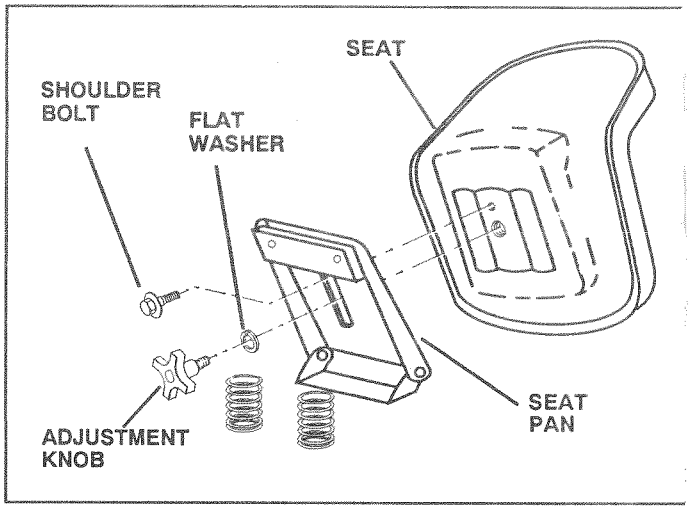


FIG. 4

CHECK TIRE PRESSURE

The tires on your unit were overinflated at the factory for shipping purposes. Correct tire pressure is important for best cutting performance.

- Reduce tire pressure to PSI shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

ASSEMBLY

'ALL MOWER (See Figs. 5, 6, 7 & 8)

lemove banding holding parallel link up against tractor.

lemove retainer securing long hinge pin to parallel link nd remove hinge pin.

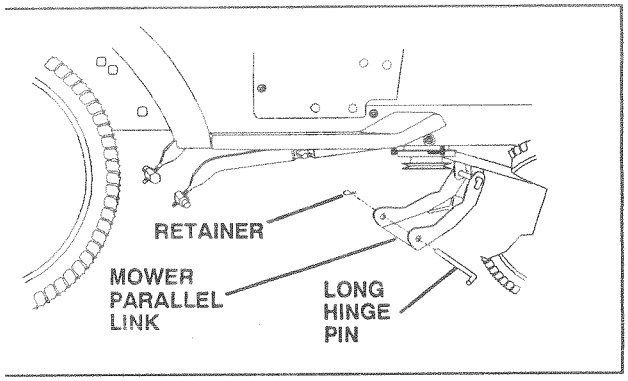


FIG. 5

laise attachment lift lever to its highest position.

lemove banding from mower deck links and V-belt.

lide mower under tractor with discharge guard to right ide of tractor.

ttach front of mower to parallel link with long hinge pin. ecure hinge pin with retainer spring.

urn height adjustment knob to its lowest setting.

ower attachment lift lever to lower suspension arms. lemove retainer springs from lift trunnions.

lide trunnions through upper hole in lift brackets and ecure with retainer springs.

ull L.H. idler pulley toward the right hand side of tractor nd roll belt over electric clutch pulley.

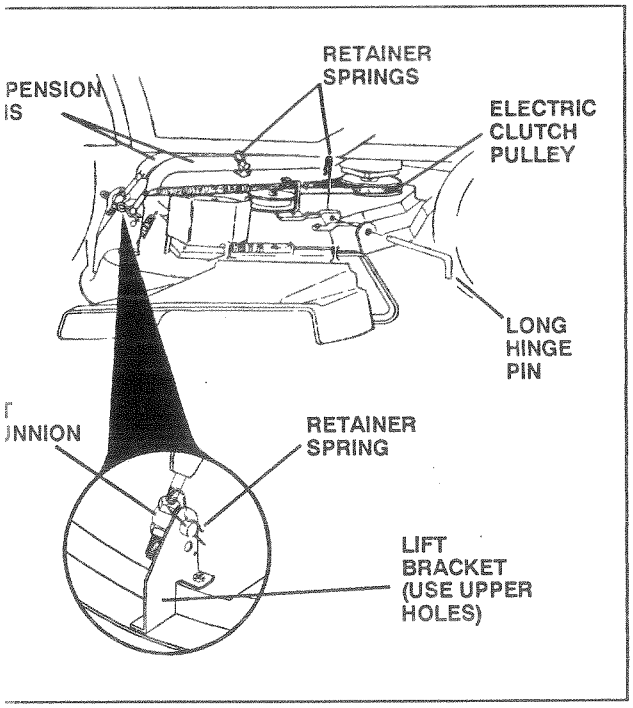


FIG. 6

NOTE: Mower drive belt installation decal located on mower housing.

- Raise attachment lift lever to raise mower.
- Turn height adjustment knob clockwise to the middle of its travel.

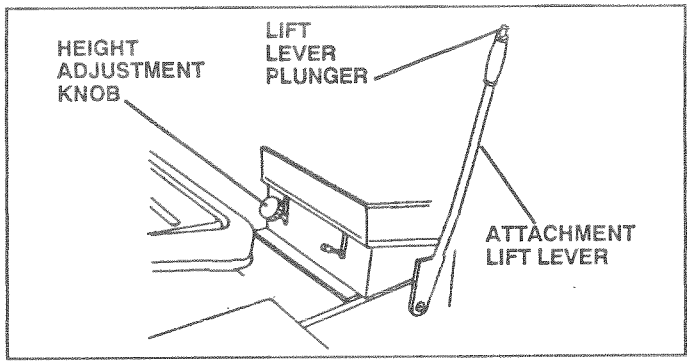


FIG. 7

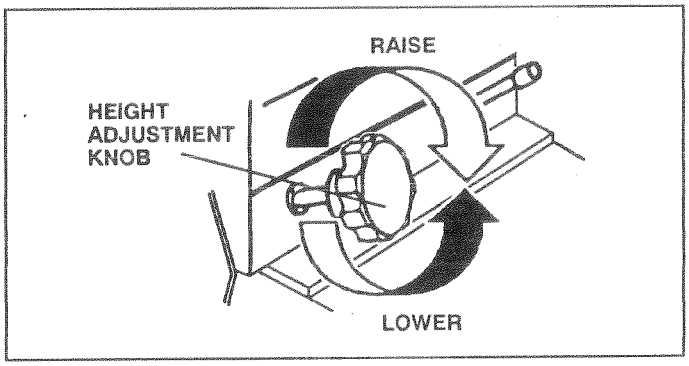


FIG. 8

CHECK DECK LEVELNESS

For best cutting results, mower housing should be properly leveled. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of his manual.

CHECK FOR PROPER POSITION OF ALL BELTS

See the figures that are shown for replacing motion, mower drive, and mower blade drive belts in the Service and Adjustments section of this manual. Verify that the belts are routed correctly.

CHECK BRAKE SYSTEM

After you learn how to operate your tractor, check to see that the brake is properly adjusted. See "TO ADJUST BRAKE" in the Service and Adjustments section of this manual.

ASSEMBLY

INSTALL BATTERY (See Figs. 9 and 10)

CAUTION: Do not short battery terminals. Before installing battery, remove metal bracelets, wristwatch bands, rings, etc.

Positive terminal must be connected first to prevent sparking from accidental grounding.

- Raise hood.
- Make sure drain tube is fastened to drain hole in battery tray and battery tray is positioned in hole of battery support.
- Place battery in plastic tray, battery terminals to rear of tractor.
- First connect RED battery cable to positive (+) battery terminal with hex bolt, flat washer, lock washer and hex nut as shown. Tighten securely.
- Connect BLACK grounding cable to negative (-) battery terminal with remaining hex bolt, flat washer, lock washer and hex nut. Tighten securely.
- Slide the two battery bolts through the terminal guard and start wing nuts onto the threads.
- Position terminal guard over the battery as shown, lower bolts into key holes and slide square shafts of bolts into slots of key holes.
- Tighten wing nuts by hand making sure battery bolts remain in slots of the key holes in the battery support.
- Be sure terminal access doors are closed.

Use terminal access doors for:

- Inspection for secure connections (to tighten hardware)
- Inspection for corrosion
- Testing battery
- Jumping (if required)
- Periodic charging

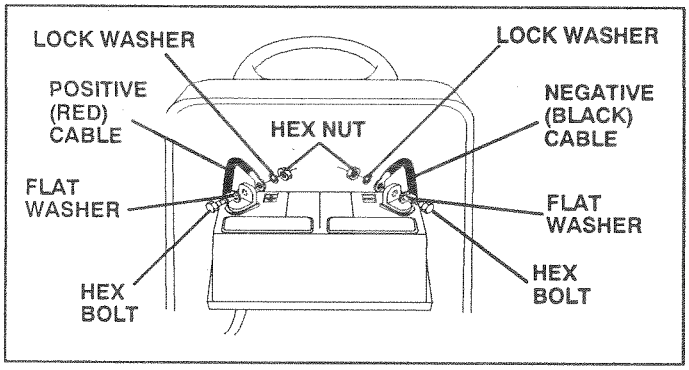


FIG. 9

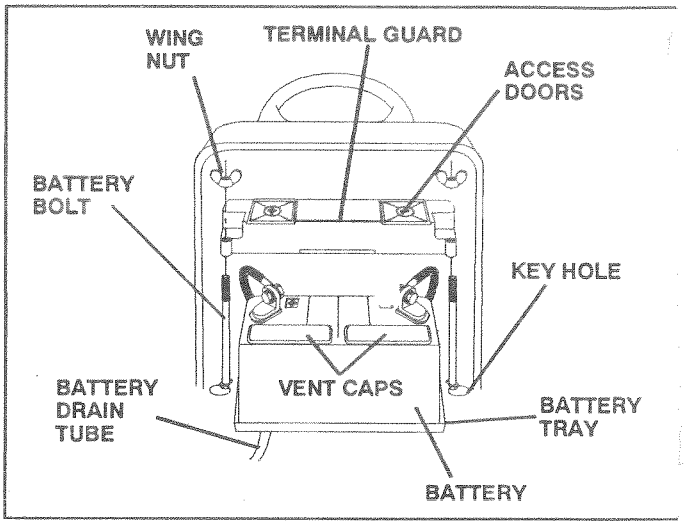


FIG. 10

✓CHECKLIST

BEFORE YOU OPERATE AND ENJOY YOUR NEW TRACTOR, WE WISH TO ASSURE THAT YOU RECEIVE THE BEST PERFORMANCE AND SATISFACTION FROM THIS QUALITY PRODUCT.

PLEASE REVIEW THE FOLLOWING CHECKLIST:

- ✓ All assembly instructions have been completed.
- ✓ No remaining loose parts in carton.
- ✓ Battery is properly prepared and charged. (Minimum 1 hour at 6 amps).
- ✓ Seat is adjusted comfortably and tightened securely.
- ✓ All tires are properly inflated. (For shipping purposes the tires were over-inflated at the factory).
- ✓ Be sure mower deck is properly leveled side-to-side, front-to-rear for best cutting results. (Tires must be properly inflated for leveling).
- ✓ Check mower and drive belts. Be sure they are routed properly around pulleys and inside all belt keepers.
- ✓ Check wiring. See that all connections are still secure and wires are properly clamped.

WHILE LEARNING HOW TO USE YOUR TRACTOR, PAY EXTRA ATTENTION TO THE FOLLOWING IMPORTANT ITEMS:

- ✓ Engine oil is at proper level.
- ✓ Fuel tank is filled with fresh, clean, regular unleaded gasoline.
- ✓ Become familiar with all controls-their location and function. Operate them before you start the engine.
- ✓ Be sure brake system is in safe operating condition.

OPERATION

IOW YOUR TRACTOR

AD THIS OWNER'S MANUAL AND SAFETY RULES BEFORE OPERATING YOUR TRACTOR.

ıpare the illustrations with your Tractor to familiarize yourself with the location of various controls and adjustments. Save manual for future reference.

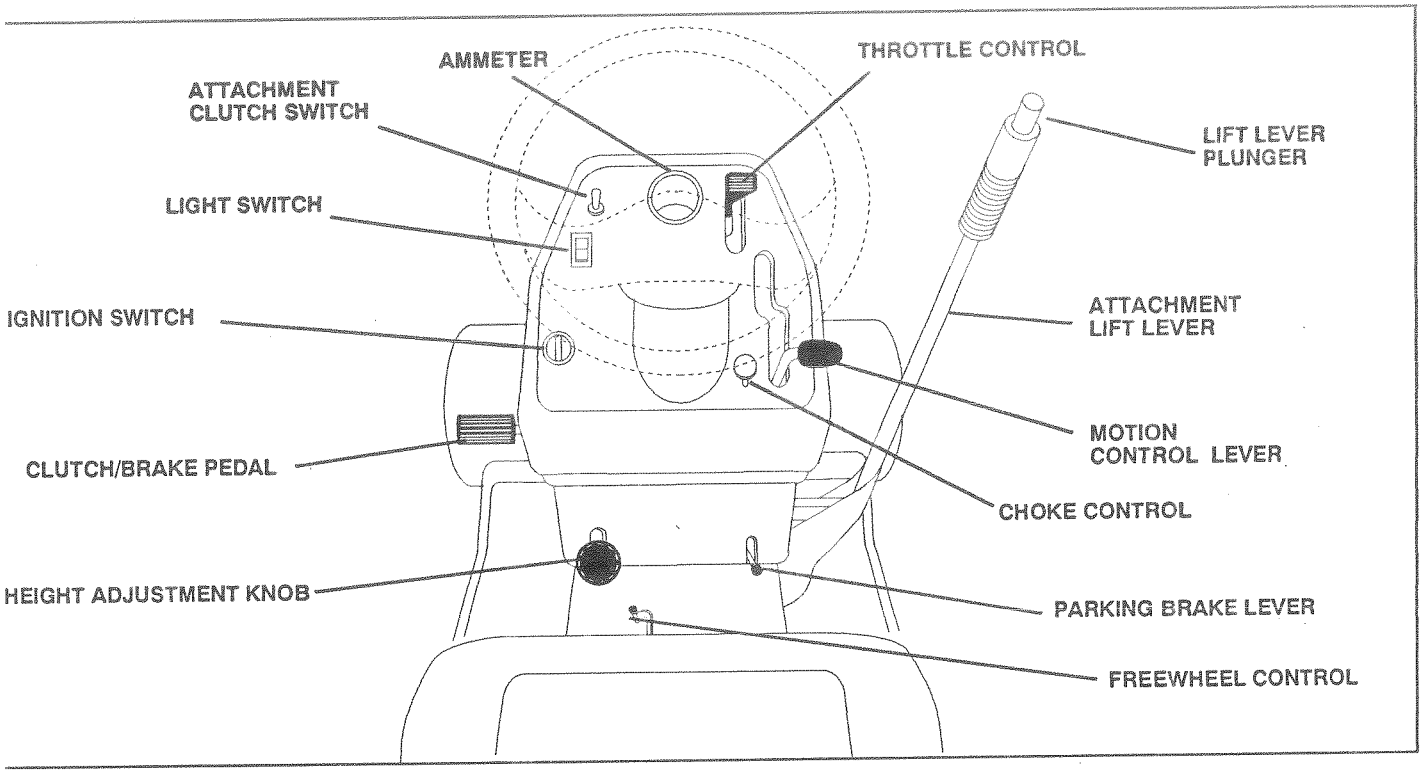


FIG. 11

Your tractor conforms to the safety standards of the American National Standards Institute.

ΓACHMENT CLUTCH SWITCH - Used to engage ver blades or other attachments mounted to your trac-

ΓACHMENT LIFT LEVER - Used to raise and lower ver deck or other attachments mounted to your tractor.
JTCH/BRAKE PEDAL - Used for declutching and king the tractor and starting the engine.
GHT ADJUSTMENT KNOB - Used to adjust the mower ght.
T LEVER PLUNGER - Used to release attachment lift r when changing its position.
TION CONTROL LEVER - Selects the speed and di- ion of the tractor.

IGNITION SWITCH - Used to start and stop the engine.
LIGHT SWITCH - Turns the headlights on and off.
PARKING BRAKE LEVER - Locks clutch/brake pedal into the brake position.
THROTTLE CONTROL - Used for starting and controlling engine speed.
FREEWHEEL CONTROL - Disengages transmission for transporting or towing the tractor with the engine off.
AMMETER - Indicated changing (+) or discharge (-) of battery.
CHOKE CONTROL - Used for starting a cold engine.

OPERATION

The operation of any tractor can result in foreign objects thrown into the eyes, which can result in severe eye damage. Always wear safety glasses or eye shields before starting your tractor and while moving. We recommend Wide Vision Safety Mask for over the spectacles or standard safety glasses.

HOW TO USE YOUR TRACTOR

TO SET PARKING BRAKE (See Fig. 12)

- Depress clutch/brake pedal into full "BRAKE" position and hold.
- Place parking brake lever in "ENGAGED" position and release pressure from clutch/brake pedal. Pedal should remain in "BRAKE" position. Make sure parking brake will hold vehicle secure.

STOPPING (See Fig. 12)

MOWER BLADES -

- Move attachment clutch switch to "DISENGAGED" position.

GROUND DRIVE -

- Depress clutch/brake pedal into full "BRAKE" position.
- Move motion control lever to "NEUTRAL" position.

ENGINE -

- Move Throttle Control to "SLOW" position.
- Turn ignition key to "OFF" position and remove key. Always remove key when leaving vehicle to prevent unauthorized use.
- Never use choke to stop engine.

NOTE: Under certain conditions when unit is standing idle with the engine running, hot engine exhaust gasses may cause "browning" of grass. To eliminate this possibility, always stop engine when stopping unit on grass areas.

CAUTION: Always stop unit completely, as described above, before leaving the operator's position; to empty grass catcher, etc.

TO USE CHOKE CONTROL (See Fig. 12)

Use choke control whenever you are starting a cold engine. Do not use to start a warm engine.

- To engage choke control, pull knob out. Slowly push knob in to disengage.

TO USE THROTTLE CONTROL (See Fig. 12)

Always operate engine at full throttle.

- Operating engine at less than full throttle reduces the battery charging rate and the engine cooling air flow.
- Full throttle offers the best mower performance.

TO MOVE FORWARD AND BACKWARD (See Fig. 12)

The direction and speed of movement is controlled by the motion control lever.

- Start tractor with clutch/brake pedal depressed and the motion control lever in "NEUTRAL" position.
- Release clutch/brake pedal.
- Slowly move motion control lever to desired position.

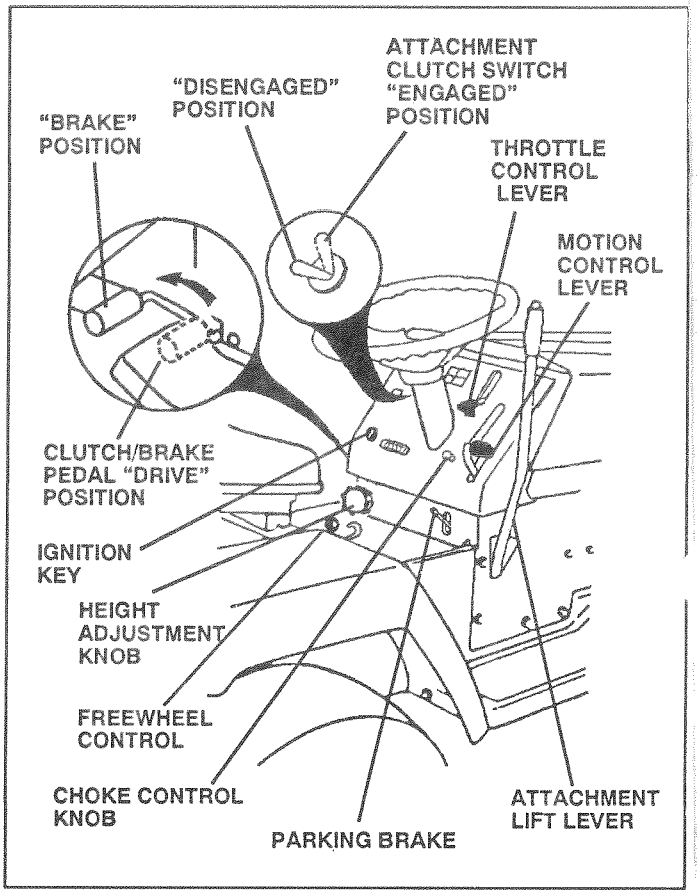


FIG. 12

TO ADJUST MOWER CUTTING HEIGHT (See Fig. 12)

The cutting height is controlled by turning the height adjustment knob in desired direction.

- Turn knob clockwise to raise cutting height.
- Turn knob counterclockwise to lower cutting height.

The cutting height range is approximately 1-1/4" to 3-3/4" (3.18 cm to 9.53 cm). The heights are measured from the ground to the blade tip with the engine not running. These heights are approximate and may vary depending upon soil conditions, height of grass and types of grass being mowed.

- The average lawn should be cut approximately 2-1/2 (6 cm) inches during the cool season and over 3 (7.62 cm) inches during hot months. For healthier and better looking lawns, mow often and after moderate growth.
- For best cutting performance, grass over 6 (15.24 cm) inches in height should be mowed twice. Make the first cut relatively high; the second to desired height.

OPERATION

OPERATE MOWER (See Fig. 12)

r unit is equipped with an operator presence sensing ch. Any attempt by the operator to leave the seat with engine running and the mower clutch engaged will shut he engine.

Select desired height of cut, using height adjustment knob.

Lower attachment lift lever.

Engage mower by pulling attachment clutch switch up and out to "ENGAGED" position.

TO STOP MOWER - Move attachment clutch switch to "DISENGAGED" position.

Raise attachment lift lever.

CAUTION: Do not operate the mower without either the entire grass catcher, on mowers so equipped, or the discharge guard in place.

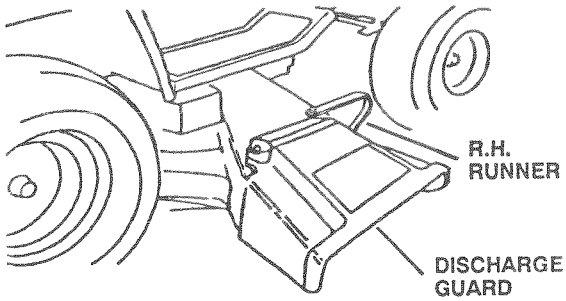


FIG. 13

TO OPERATE ON HILLS

CAUTION: Do not drive up or down hills with slopes greater than 15° and do not drive across any slope.

- Choose the slowest speed before starting up or down hills.
- Avoid stopping or changing speed on hills.
- If slowing is necessary, move throttle control lever to slower position.
- If stopping is absolutely necessary, push clutch/brake pedal quickly to brake position and engage parking brake.
- Move motion control lever to "NEUTRAL" position.
- To restart movement, release parking brake and clutch/brake pedal and slowly move motion control lever to slowest setting.
- Make all turns slowly.

TO TRANSPORT

- Raise attachment lift lever to highest position.
- When pushing or towing your unit, be sure motion control lever is in "NEUTRAL" position.
- Do not push or tow unit at more than five (5) MPH (8 Kmh).

BEFORE STARTING THE ENGINE

CHECK ENGINE OIL LEVEL (See Fig. 14)

- The engine in your unit has been shipped, from the factory, already filled with summer weight oil.
- Check engine oil with unit on level ground.
- Remove oil fill cap/dipstick and wipe clean, reinsert the dipstick and push it all the way down into the tube, wait for a few seconds, remove and read oil level. If necessary, add oil until "FULL" mark on dipstick is reached. Do not overfill.
- For cold weather operation you should change oil for easier starting (See "OIL VISCOSITY CHART" in the Customer Responsibilities section of this manual).
- To change engine oil, see the Customer Responsibilities section in this manual.

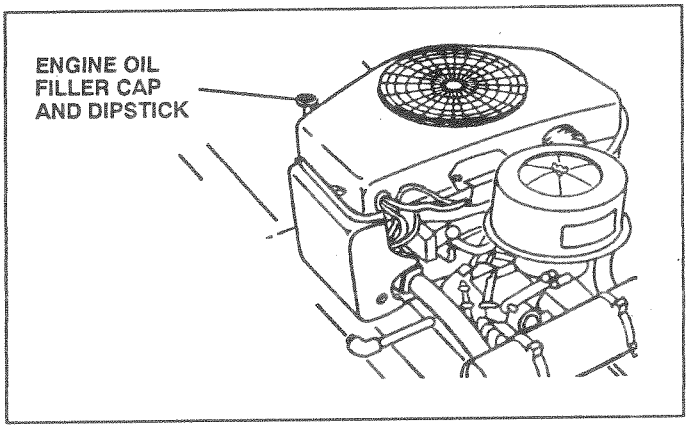


FIG. 14

OPERATION

ADD GASOLINE

- Fill fuel tank. Use fresh, clean, regular unleaded gasoline. (Use of leaded gasoline will increase carbon and lead oxide deposits and reduce valve life).

IMPORTANT: WHEN OPERATING IN TEMPERATURES BELOW 32°F(0°C), USE FRESH, CLEAN WINTER GRADE GASOLINE TO HELP INSURE GOOD COLD WEATHER STARTING.

WARNING: Experience indicates that alcohol blended fuels (called gasohol or using ethanol or methanol) can attract moisture which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage. To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the gas tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See Storage Instructions for additional information. Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.

CAUTION: Fill to bottom of gas tank filler neck. Do not overfill. Wipe off any spilled oil or fuel. Do not store, spill or use gasoline near an open flame.

TO START ENGINE (See Fig. 12)

When starting engine for the first time or if engine has run out of fuel, it will take extra cranking time to move fuel from the tank to the engine.

- Depress the clutch/brake pedal and set the parking brake.
- Place motion control lever in "NEUTRAL" position.
- Move attachment clutch to "DISENGAGED" position.
- Pull choke control out to "CHOKE" position for cold engine start. For warm engine start do not use choke control.
- Move throttle control to midway between "FAST" and "SLOW" positions.
- Turn ignition key clockwise to "START" position and release key as soon as engine starts. Do not run starter continuously for more than fifteen seconds per minute. If engine does not start after several attempts, move throttle control to "FAST" position, wait a few minutes and try again.
- When engine starts, slowly push choke control in.
- Move throttle control to "FAST" position.
- Allow engine to warm up for a few minutes before engaging clutch/brake pedal or attachment clutch switch.

NOTE: If at a high altitude (above 3000 feet) or in cold temperatures (below 32° F), the carburetor fuel mixture may need to be adjusted for best engine performance. See "TO ADJUST CARBURETOR" in the Service and Adjustments section of this manual.

CAUTION: Before driving the tractor, install mower or remove front mower suspension bracket and suspension arms.

MOWING TIPS

- Tire chains cannot be used when the mower housing is attached to unit.
- Mower should be properly leveled for best mowing performance. See "TO LEVEL MOWER HOUSING" in the Service and Adjustments section of this manual.
- Use the runner on the right hand side of mower as a guide. The blade cuts approximately an inch outside the runner (See Fig. 13).
- The left hand side of mower should be used for trimming.
- Drive so that clippings are discharged onto the area that has been cut. Have the cut area to the right of the machine. This will result in a more even distribution of clippings and more uniform cutting.
- When mowing large areas, start by turning to the right so that clippings will discharge away from shrubs, fences, driveways, etc. After one or two rounds, mow in the opposite direction making left hand turns until finished (See Fig. 15).

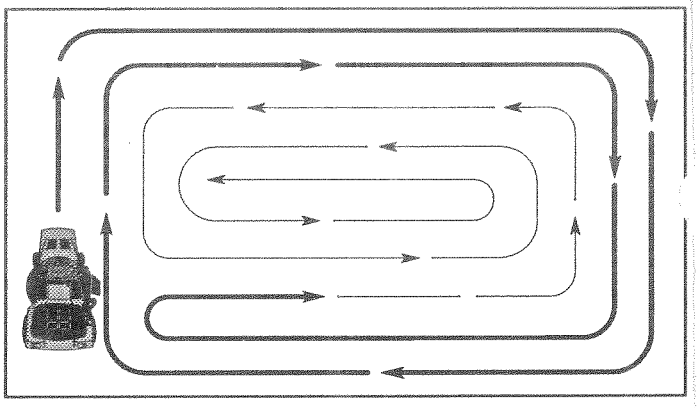


FIG. 15

- If grass is extremely tall, it should be mowed twice to reduce load and possible fire hazard from dried clippings. Make first cut relatively high; the second to the desired height.
- Do not mow grass when it is wet. Wet grass will plug mower and leave undesirable clumps. Allow grass to dry before mowing.
- Always operate engine at full throttle when mowing to assure better mowing performance and proper discharge of material. Regulate ground speed by selecting a low enough gear to give the mower cutting performance as well as the quality of cut desired.
- When operating attachments, select a ground speed that will suit the terrain and give best performance of the attachment being used.

CUSTOMER RESPONSIBILITIES

MAINTENANCE SCHEDULE

FILL IN DATES AS YOU COMPLETE REGULAR SERVICE

		BEFORE EACH USE	FIRST 2 HOURS	EVERY 8 HOURS	EVERY 25 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	EVERY SEASON	BEFORE STORAGE	SERVICE DATES				
TRACTOR	Check Brake Operation	✔		✔										
	Check Tire Pressure	✔		✔										
	Check for Loose Fasteners	✔							✔					
	Sharpen/Replace Mower Blades				✔4									
	Lubrication Chart				✔				✔					
	Check Battery Level/Recharge				✔									
	Clean Battery and Terminals				✔				✔					
	Check Transmission Cooling				✔									
	Adjust Blade Belt(s) Tension						✔							
	Adjust Motion Drive Belt(s) Tension						✔							
ENGINE	Check Engine Oil Level	✔		✔										
	Change Engine Oil		✔		✔1,2,3				✔					
	Clean Air Filter				✔2									
	Clean Air Screen				✔2									
	Inspect Muffler/Spark Arrester					✔								
	Replace Oil Filter (If equipped)						✔1,2							
	Clean Engine Cooling Fins						✔2							
	Replace Spark Plug						✔	✔						
	Replace Air Filter Paper Cartridge						✔2							
	Replace Fuel Filter							✔						

1 - Change more often when operating under a heavy load or in high ambient temperatures.
2 - Service more often when operating in dirty or dusty conditions.
3 - If equipped with oil filter, change oil every 50 hours.
4 - Replace blades more often when mowing in sandy soil.

ENERAL RECOMMENDATIONS

warranty on this vehicle does not cover items that have n subjected to operator abuse or negligence. To ive full value from the warranty, operator must maintain unit as instructed in this manual.

ne adjustments will need to be made periodically to perly maintain your unit.

adjustments in the Service and Adjustments section of manual should be checked at least once each season.

Once a year you should replace the spark plug, clean or replace air filter, and check blades and belts for wear. A new spark plug and clean air filter assure proper air-fuel mixture and help your engine run better and last longer.

FORE EACH USE

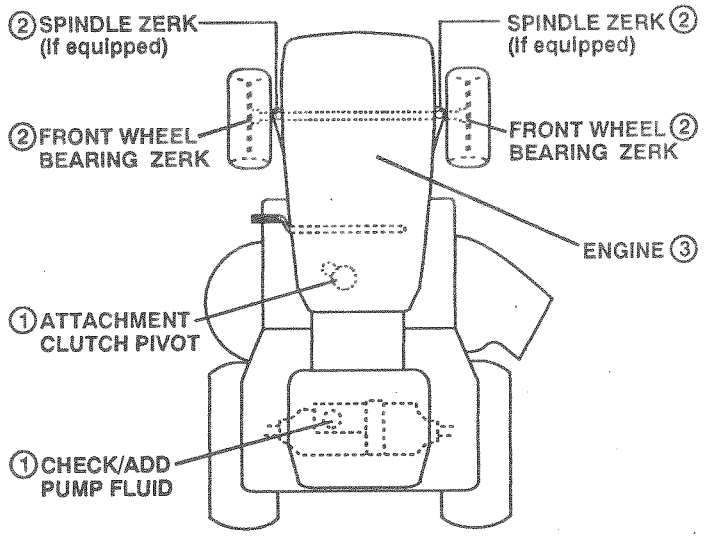
Check engine oil level.

Check brake operation.

Check tire pressure.

Check for loose fasteners.

LUBRICATION CHART



① SAE 10W30 MOTOR OIL API - SG

② GENERAL PURPOSE GREASE

③ REFER TO CUSTOMER RESPONSIBILITES "ENGINE" SECTION

IMPORTANT: DO NOT OIL OR GREASE THE PIVOT POINTS WHICH HAVE SPECIAL NYLON BEARINGS. VISCOUS LUBRICANTS WILL ATTRACT DUST AND DIRT THAT WILL SHORTEN THE LIFE OF THE SELF-LUBRICATING BEARINGS. IF YOU FEEL THEY MUST BE LUBRICATED, USE ONLY A DRY, POWDERED GRAPHITE TYPE LUBRICANT SPARINGLY.

CUSTOMER RESPONSIBILITIES

TRACTOR

Always observe safety rules when performing any maintenance.

BRAKE OPERATION

If unit requires more than six (6) feet stopping distance at high speed in highest gear, than brake must be adjusted. (See "TO ADJUST BRAKE" in Service and Adjustments section of this manual).

TIRES

- Maintain proper air pressure in all tires (See "PRODUCT SPECIFICATIONS" on page 3 of this manual).
- Keep tires free of gasoline, oil, or insect control chemicals which can harm rubber.
- Avoid stumps, stones, deep ruts, sharp objects and other hazards that may cause tire damage.

BLADE CARE

For best results mower blades must be kept sharp. The blades can be sharpened with a file or on a grinding wheel. We suggest they be sharpened or replaced after every 25 hours of mowing. Check blades more often if mowing in sandy conditions.

- Do not attempt to sharpen blades while they are on the mower.
- Replace bent or damaged blades.

BLADE REMOVAL (See Fig. 16)

- Raise mower to highest position to allow access to blades.
- Remove hex bolt, lock washer and flat washer securing blade.
- Install new or resharpened blade with trailing edge up towards deck as shown.
- Reassemble hex bolt, lock washer and flat washer in exact order as shown.
- Tighten bolt securely (30-35 Ft. Lbs. torque).

IMPORTANT: BLADE BOLT IS GRADE 5 HEAT TREATED.

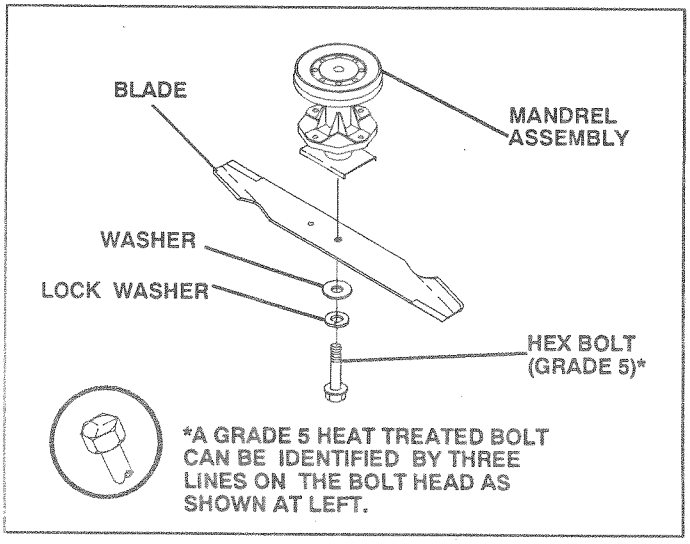


FIG. 16

TO SHARPEN BLADE (See Fig. 17)

Care should be taken to keep the blade balanced. An unbalanced blade will cause excessive vibration and eventual damage to mower and engine.

- The blade can be sharpened with a file or on a grinding wheel. Do not attempt to sharpen while on the mower.
- To check blade balance, drive a nail into a beam or wall. Leave about one inch of the straight nail exposed. Place center hole of blade over the head of the nail. If blade is balanced, it should remain in a horizontal position. If either end of the blade moves downward, sharpen the heavy end until the blade is balanced.

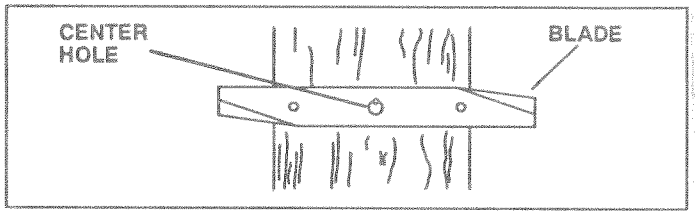


FIG. 17

BATTERY (See Fig. 18)

Your unit has a battery charging system which is sufficient for normal use. However, periodic charging of the battery with an automotive charger will extend it's life.

- Acid solution level in each battery cell should be even with bottoms of vent wells. Add only distilled or iron free water if necessary. Do not overfill.
- Keep battery and terminals clean.
- Keep battery bolts tight.
- Keep vent caps tight and small vent holes in caps open.
- Recharge at 6 amperes for 1 hour.

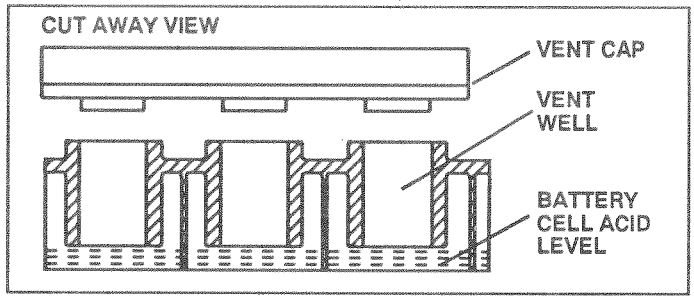


FIG. 18

TO CLEAN BATTERY AND TERMINALS -

Corrosion and dirt on the battery and terminals can cause the battery to "leak" power.

- Remove terminal guard.
- Disconnect BLACK battery cable first then RED battery cable and remove battery from tractor.
- Wash battery with solution of four tablespoons of baking soda to one gallon of water. Be careful not to get the soda solution into the cells.
- Rinse the battery with plain water and dry.
- Clean terminals and battery cable ends with wire brush until bright.
- Coat terminals with grease or petroleum jelly.
- Reinstall battery (See "INSTALL BATTERY" in Assembly section of this manual).

CUSTOMER RESPONSIBILITIES

ɜELTS

ɔck V-Belts for deterioration and wear after 100 hours replace if necessary. The belts are not adjustable. ılace belts if they begin to slip from wear.

ANSAXLE COOLING

ıp transaxle free from build-up of dirt and chaff which restrict cooling.

ANSAXLE PUMP FLUID LEVEL (See Figs. & 20)

ɔck fluid level after every 25 hours of use. Rear drawbar ɜt be removed to check fluid level.

Remove the (4) fasteners to remove the drawbar.

Disconnect the tiller attachment interlock loop.

Clean outside of reservoir thoroughly before removing cap.

Check for proper fluid level in reservoir (should be above the "oil level cold" line).

If oil is needed, remove cap on reservoir (with the clockwise rotation), remove bladder, and fill to "oil level cold" line with SAE 10W30 oil API-SG.

Replace bladder and cap and tighten securely (do not overtighten).

Reconnect tiller attachment interlock loop.

Reassemble drawbar and tighten fasteners securely.

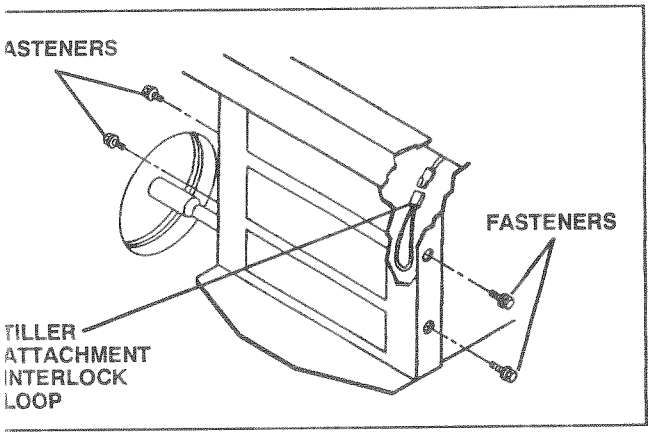


FIG. 19

ANSMISSION COOLING (See Fig. 20)

ɜ fan and cooling fins of transmission should be kept an to assure proper cooling.

not attempt to clean fan or transmission while engine is ıning or while the transmission is hot.

Inspect cooling fan to be sure fan blades are intact and clean.

Inspect cooling fins for dirt, grass clippings and other materials.

Thoroughly clean the cooling fins with a cloth, brush, or compressed air.

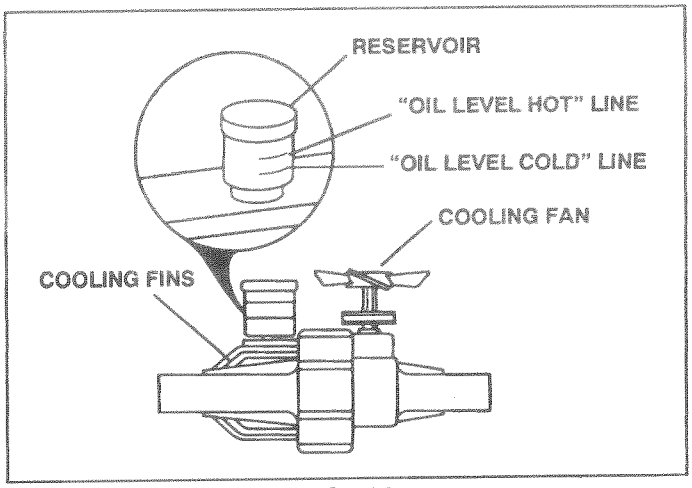


FIG. 20

ENGINE

LUBRICATION

Only use high quality detergent oil rated with API service classification SG. Select the oil's SAE viscosity grade according to your expected operating temperature.

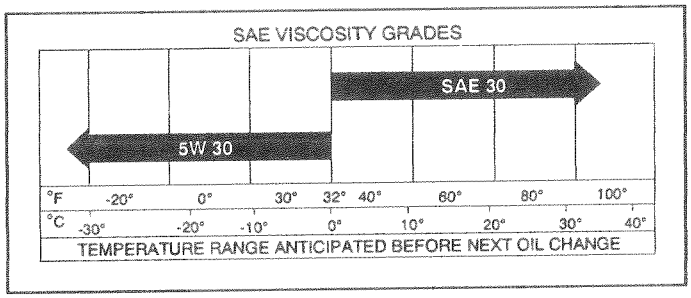


FIG. 21

NOTE: Although multi-viscosity oils (5W30, 10W30, etc.) improve starting in cold weather, these multi-viscosity oils will result in increased oil consumption when used above 32°F. Check your engine oil level more frequently to avoid possible engine damage from running low on oil.

Change the oil after the first two hours of operation and every 50 hours thereafter or at least once a year if the tractor is not used for 50 hours in one year.

Check the crankcase oil level before starting the engine and after each five (5) hours of continuous use. Tighten oil fill cap/dipstick securely each time you check the oil level.

CUSTOMER RESPONSIBILITIES

TO CHANGE ENGINE OIL (See Figs. 21 and 22)

Determine temperature range expected before oil change. All oil must meet API service classification SG.

- Be sure vehicle is on level surface.
- Oil will drain more freely when warm.
- Catch oil in a suitable container.
- See engine manual packed with your unit for further instructions.

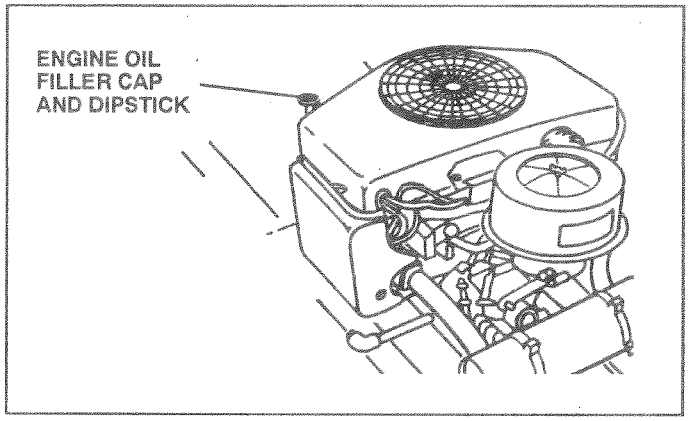


FIG. 22

CLEAN AIR SCREEN

Air screen must be kept free of dirt and chaff to prevent engine damage from overheating. Clean with a wire brush or compressed air to remove dirt and stubborn dried gum fibers.

CLEAN ENGINE COOLING FINS

Remove any dust, dirt or oil from engine cooling fins to prevent damage from overheating. Air guide covers must be removed.

See Engine Manual packed with your unit.

AIR FILTER FOAM PRE-CLEANER

Your engine will not run properly and may be damaged by using a dirty air filter. Clean the foam pre-cleaner element after every 25 hours of operation, more often if tractor is used in very dusty, dirty conditions.

See Engine Manual packed with your unit.

ENGINE OIL FILTER

Replace the engine oil filter every season or every other oil change if the tractor is used more than 100 hours in one year.

See Engine Manual packed with your unit.

MUFFLER

Inspect and replace corroded muffler and spark arrester (if equipped) as it could create a fire hazard and/or damage.

SPARK PLUGS

Replace spark plugs at the beginning of each mowing season or after every 100 hours of use, whichever comes first. Spark plug type and gap setting is shown in "PRODUCT SPECIFICATIONS" on page 3 of this manual.

IN-LINE FUEL FILTER (See Fig. 23)

Fuel filter should be replaced once each season. If fuel filter becomes clogged, obstructing fuel flow to carburetor, replacement is required.

- With engine cool, remove filter and plug fuel line sections.
- Place new fuel filter in position in fuel line with arrow pointing towards carburetor.
- Be sure there are no fuel line leaks and clamps are properly positioned.
- Immediately wipe up any spilled gasoline.

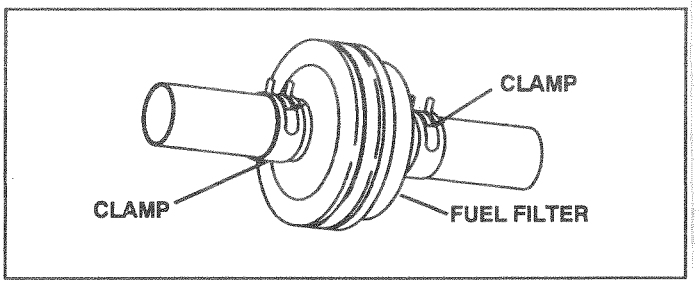


FIG. 23

CLEANING

- Clean engine, battery, seat, finish, etc. of all foreign matter.
- Keep finished surfaces and wheels free of all gasoline, oil, etc.
- Protect painted surfaces with automotive type wax.

We do not recommend using a garden hose to clean your unit unless the electrical system, muffler, air filter and carburetor are covered to keep water out. Water in engine can result in a shortened engine life.

SERVICE AND ADJUSTMENTS

CAUTION: BEFORE PERFORMING ANY SERVICE OR ADJUSTMENTS:

- Depress clutch/brake pedal fully and set parking brake.
- Place motion control lever in "NEUTRAL" position.
- Place attachment clutch in "DISENGAGED" position.
- Turn ignition key "OFF" and remove key.
- Make sure the blades and all moving parts have completely stopped.
- Disconnect spark plug wire from spark plug and place wire where it cannot come in contact with plug.

RACTOR

REMOVE MOWER (See Fig. 24)

wer will be easier to remove from the right side of unit.

Remove mower drive belt from electric clutch pulley only (See "TO REPLACE MOWER DRIVE BELT" through step removing belt from electric clutch pulley).

Pull retainer springs out of rear suspension trunnions.

Remove rear suspension trunnions from lift brackets.

Pull retainer springs from front hinge pins.

Remove hinge pins attaching parallel link to mower and front axle.

Raise lift lever to raise suspension arms. Slide mower out from under tractor.

ORTANT: IF AN ATTACHMENT OTHER THAN THE MOWER CK IS TO BE MOUNTED ON THE TRACTOR, REMOVE THE . AND R.H. SUSPENSION ARMS AND THE FRONT SPENSION BRACKET.

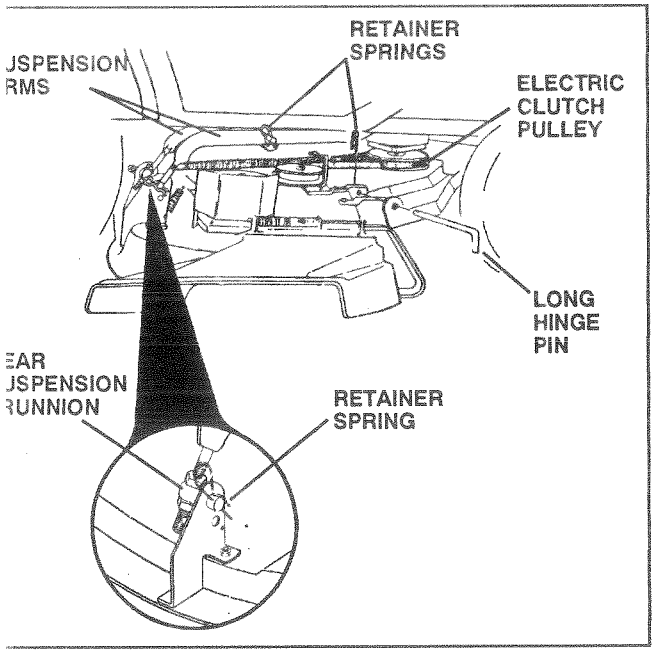


FIG. 24

INSTALL MOWER

e "INSTALL MOWER" in the Assembly section of this nual.

LEVEL MOWER HOUSING

just the mower while tractor is parked on level ground or veway. Make sure tires are properly inflated (See RODUCT SPECIFICATIONS" on page 3). If tires are er or underinflated, you will not properly adjust your wer.

SIDE-TO-SIDE ADJUSTMENT (See Figs. 25 and 26)

- Raise attachment lift lever to its highest position.
- Measure height from bottom deck curl to ground level at front corners of mower. Distance "A" should be the same.

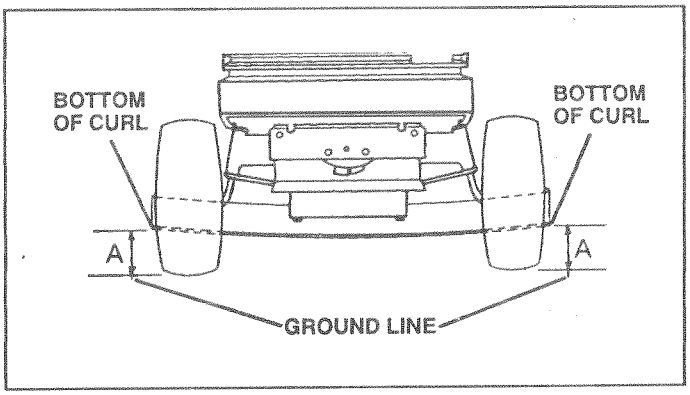


FIG. 25

- If distance "A" needs to be changed, snap out access hole cover on left side of tractor above footrest.
- To raise left side of mower, loosen nut "B" and tighten nut "C".
- To lower left side of mower, loosen nut "C" and tighten nut "B".
- When distance "A" is equal, securely tighten nuts "B" and "C".

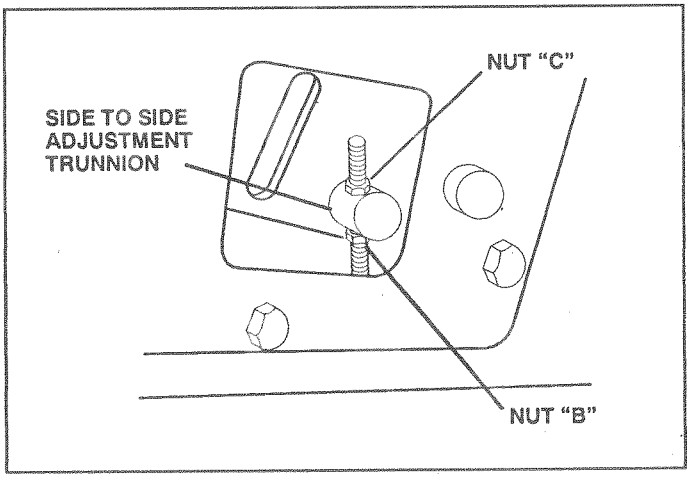


FIG. 26

- Replace access hole cover.

FRONT-TO-BACK ADJUSTMENT (See Figs. 27 and 28)

To obtain the best cutting results, the mower housing should be adjusted so the back is approximately 7/8" to 1-1/8" higher than the front when the mower is in height adjustment position.

Measure distance "D" from ground line to bottom of deck curl at centerline outside of mandrels.

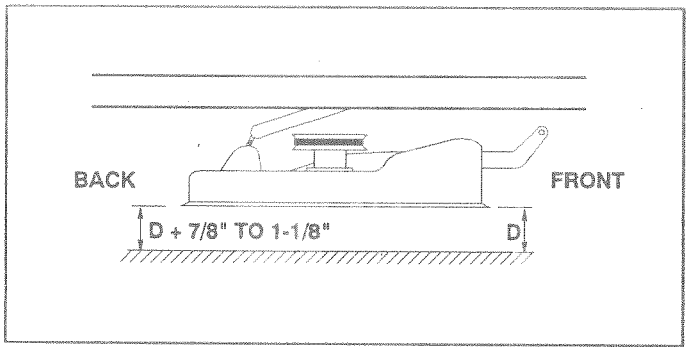


FIG. 27

- To raise rear of mower, loosen nut "E" on both rear suspension arms. Screw both nuts "F" on both rear suspension arms an equal number of turns.
- When distance "D" is 7/8" to 1-1/8" higher at rear than front, retighten nuts "E".

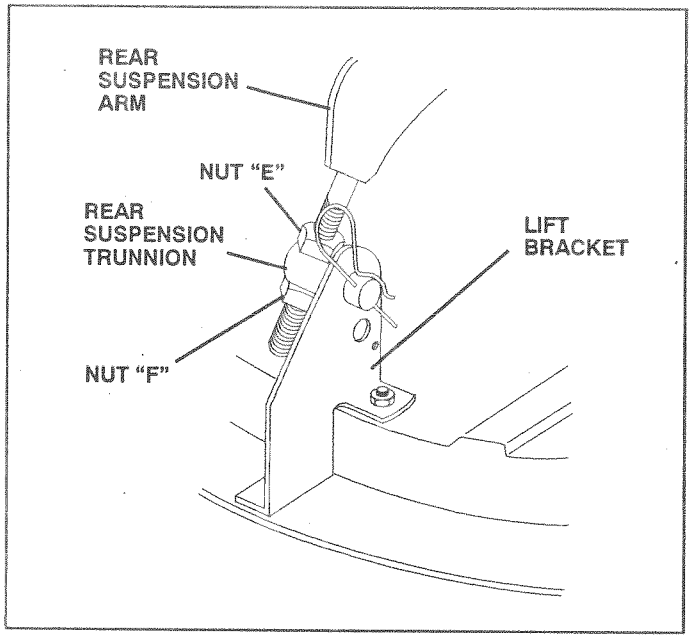


FIG. 28

- Recheck side-to-side adjustment.

IMPORTANT: WHEN ADJUSTING REAR SUSPENSION ARMS, ALWAYS ADJUST BOTH EQUALLY SO MOWER WILL STAY LEVEL SIDE-TO-SIDE.

TO ADJUST ATTACHMENT CLUTCH (See Fig. 29)

The electric clutch should provide years of service. The clutch has a built-in brake that stops the pulley within 5 seconds. Eventually, the internal brake will wear so the mower blades will not stop as recommended. Adjustments should be made by authorized service technician.

- Make sure attachment clutch and ignition switches are in the "OFF" position.
- Adjust the three nylon locknuts until the space between clutch plate and rotor measures .012 inches at all three slot locations cut in side of brake plate.

NOTE: After installing a new electric clutch, run tractor at full throttle, and engage and disengage electric clutch 10 cycles to wear in clutch plate.

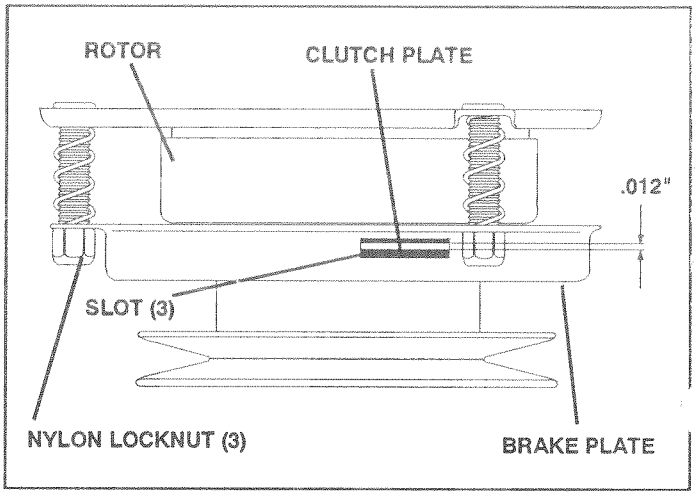


FIG. 29

SERVICE AND ADJUSTMENTS

REPLACE MOWER DRIVE BELT
ee Figs. 30 and 31)

k the tractor on level surface. Engage parking brake. assistance, there is a belt installation guide decal on the ver housing.

_T REMOVAL -

Place attachment clutch in "DISENGAGED" position.

Turn height adjustment knob to lowest setting.

Move attachment lift lever forward to lower mower to its lowest position.

Roll belt off electric clutch pulley.

Pull belt off mower pulley and both idler pulleys.

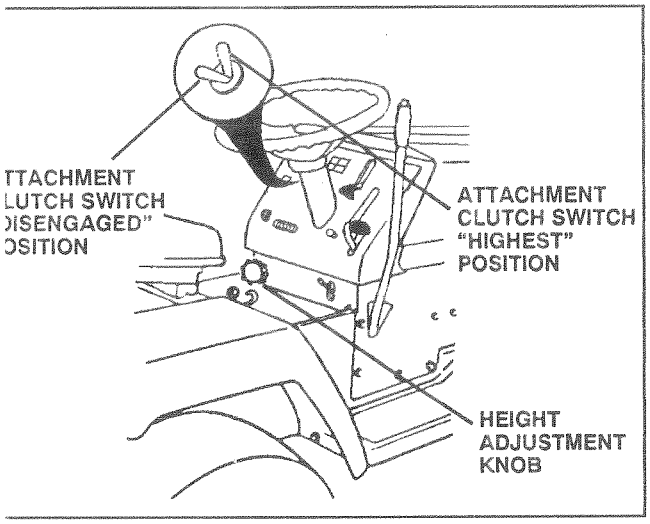


FIG. 30

LT INSTALLATION -

Place belt around mower pulley and both idler pulleys.

Roll belt over electric clutch pulley.

Make sure belt is in all pulley grooves and inside all belt guides.

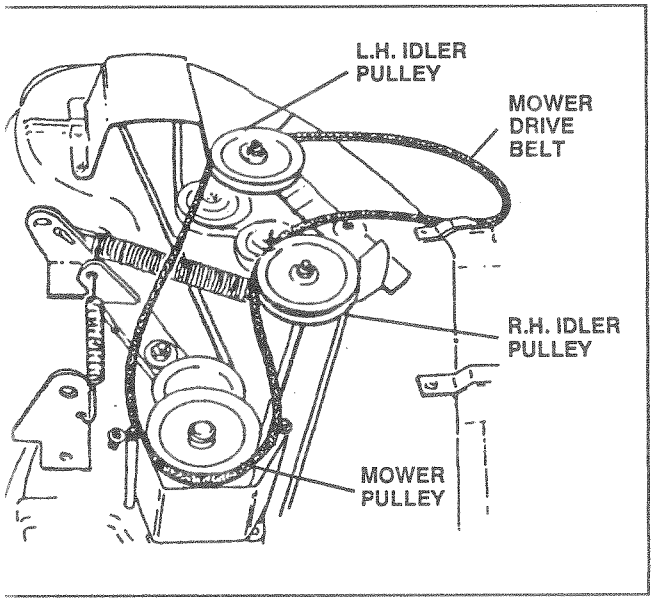


FIG. 31

TO ADJUST BRAKE (See Fig. 32)

Your unit is equipped with an adjustable brake system which is mounted on the right side of the transaxle.

If unit requires more than six (6) feet stopping distance at high speed in highest gear, then brake must be adjusted.

- Depress clutch/brake pedal and engage parking brake.
- Measure distance between brake operating arm and nut "A" on brake rod.
- If distance is other than 1-1/2", disengage parking brake, loosen jam nut and turn nut "A" until distance becomes 1-1/2". Retighten jam nut against nut "A".
- Engage parking brake and recheck distance.
- Road test unit for proper stopping distance as stated above. Readjust if necessary. If stopping distance is still greater than six (6) feet in highest gear, further maintenance is necessary. Contact your nearest authorized service center.

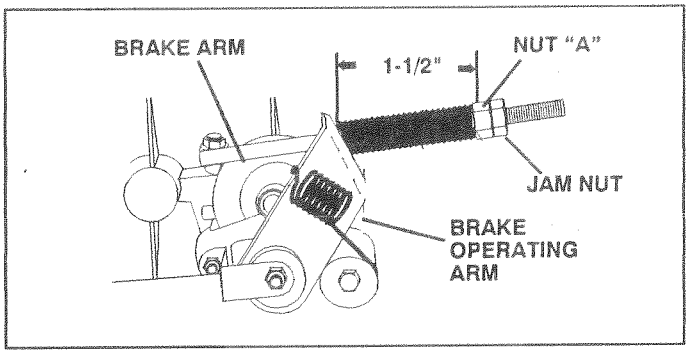


FIG. 32

TO REPLACE MOWER BLADE DRIVE BELT (See Fig. 33)

- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Pull mower drive belt off mower pulley and both idler pulleys (See Fig. 31).
- Pull mower blade drive belt towards rear of mower at tensioning pulley. Place a block between tensioning pulley and mower lift bracket. Roll belt off tensioning pulley.
- Roll belt off all other pulleys.
- Slide belt from under spring.
- To install belt, reverse above procedure. Make sure belt is engaged in all pulleys.

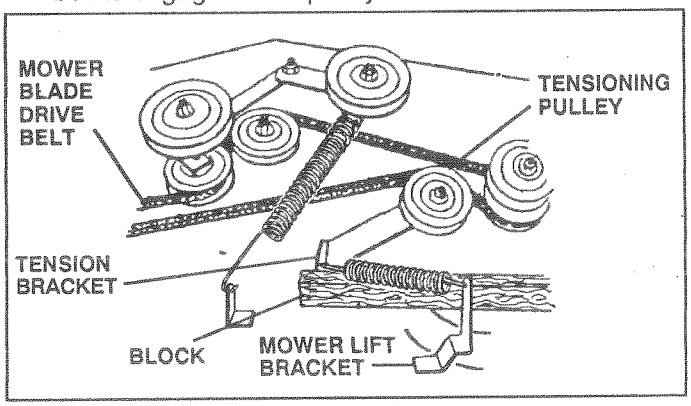


FIG. 33

TO REPLACE MOTION DRIVE BELT (See Figs. 34 & 35)

Park the tractor on level surface. Engage parking brake. For ease of service, there is a belt installation guide decal on bottom side of left footrest.

- Remove mower (See "TO REMOVE MOWER" in this section of this manual).
- Remove belt from stationary idler.
- Release parking brake. Pull belt as far as possible over top of clutching idler.
- Reset parking brake. Pull belt over top of clutching idler.
- Place top side of belt between blades of fan on input pulley and rotate clockwise. Remove belt from input pulley.
- Using a 9/16" wrench, remove clutch locator.
- Disconnect clutch wire connector.
- Remove belt from electric clutch pulley.
- Install new belt by reversing above procedure.

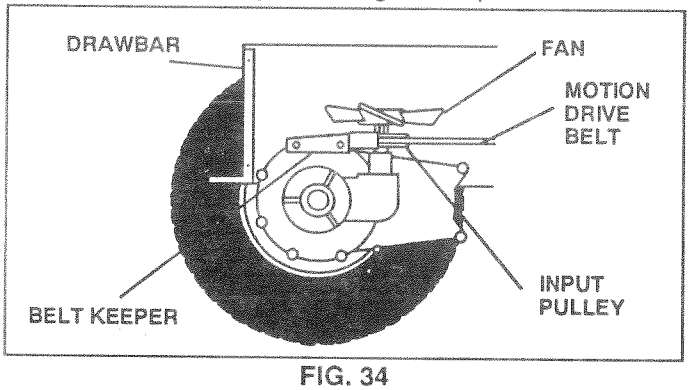


FIG. 34

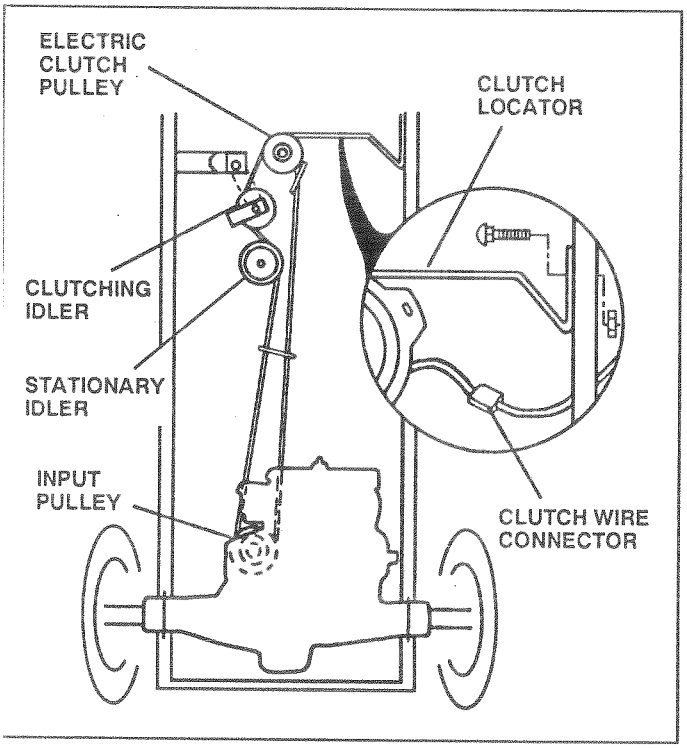


FIG. 35

TO ADJUST STEERING WHEEL ALIGNMENT

If steering wheel crossbars are not horizontal (left to right, when wheels are positioned straight forward, remove steering wheel and reassemble per instructions in the Assembly section of this manual.

FRONT WHEEL TOE-IN/CAMBER

The front wheel toe-in and camber are not adjustable on your unit. If damage has occurred to affect the front wheel toe-in or camber, contact your nearest Authorized Service Center.

REMOVE WHEEL FOR REPAIRS
e Fig. 36)

Block up axle securely.
Remove hub cap, retaining ring and washers to allow wheel removal (rear wheel contains a square key - Do not lose).
Repair tire and reassemble.
On rear wheels only: align grooves in rear wheel hub and axle. Insert square key.
Replace washers and snap retaining ring securely in axle groove.
Replace hub cap.

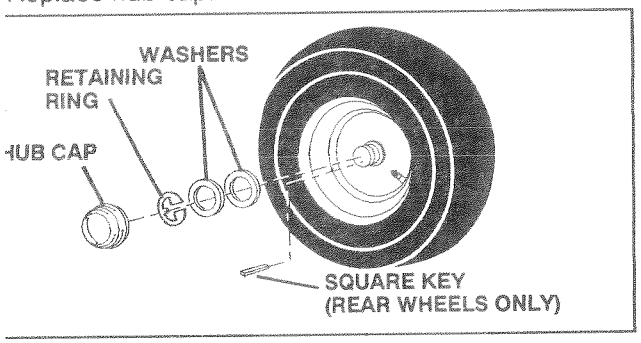


FIG. 36

START ENGINE WITH A WEAK BATTERY
›e Figs. 37 and 38)

CAUTION: Lead-acid batteries generate explosive gases. Keep sparks, flame and smoking materials away from batteries. Always wear eye protection when around batteries.

›ur battery is too weak to start the engine, it should be ıarged. If "jumper cables" are used for emergency ting, follow this procedure:

›ORTANT: YOUR UNIT IS EQUIPPED WITH A 12 LT NEGATIVE GROUNDED SYSTEM. THE OTHER HICLE MUST ALSO BE A 12 VOLT NEGATIVE OUNDED SYSTEM. DO NOT USE YOUR TRACTOR TTERY TO START OTHER VEHICLES.

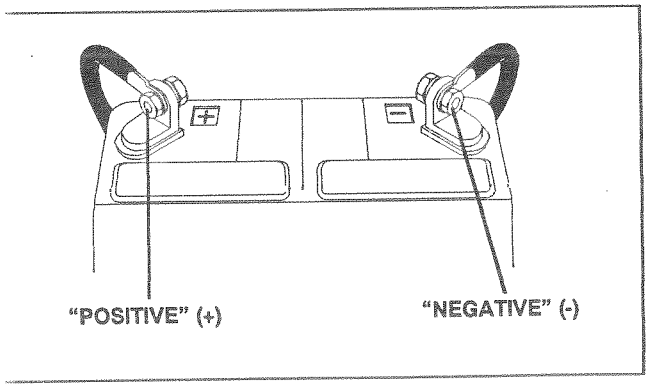


FIG. 37

TO ATTACH JUMPER CABLES -

- Connect each end of the RED cable to the POSITIVE (+) terminal of each battery, taking care not to short against chassis.
- Connect one end of the BLACK cable to the NEGATIVE (-) terminal of fully charged battery.
- Connect the other end of the BLACK cable to a panel bolt on the left side of the chassis, away from the fuel tank and battery.

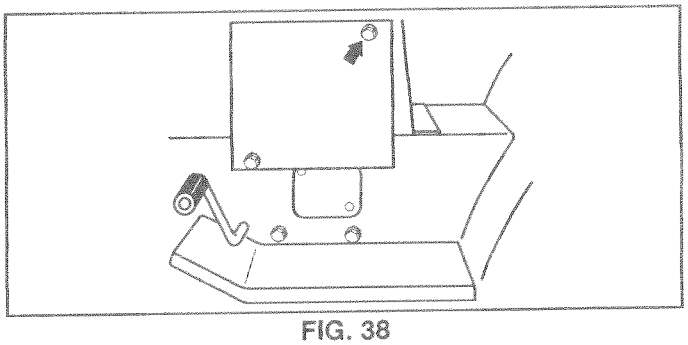


FIG. 38

TO REMOVE CABLES, REVERSE ORDER -

- BLACK cable first from chassis and fully charged battery.
- RED cable last from both batteries.

TO REPLACE FUSE

Replace with 30 amp automotive-type plug-in fuse. The fuse holder is located behind the dash.

TO REPLACE HEADLIGHT BULB

- Raise hood.
- Pull bulb holder out of the hole in the backside of the grill.
- Replace bulb in holder and push bulb holder securely back into the hole in the backside of the grill.
- Close hood.

TO REMOVE HOOD AND GRILL ASSEMBLY (See Fig. 39)

- Raise hood.
- Unsnap headlight wire connector.
- Remove wing nut and star washer at inside rear of each side panel.
- Pivot hood and side panel forward and lift off tractor.
- To reinstall reverse above procedure.

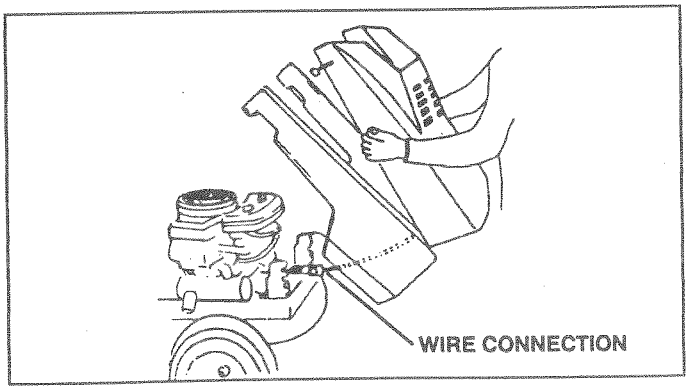


FIG. 39

SERVICE AND ADJUSTMENTS

ENGINE

TO ADJUST THROTTLE CONTROL CABLE (See Fig. 40)

The throttle control has been preset at the factory and adjustment should not be necessary. Check adjustment as described below before loosening cable. If adjustment is necessary, proceed as follows:

- With engine not running, move throttle control lever to "FAST" position.
- Check that throttle lever is against stop. If it is not, loosen clamp screw and pull throttle cable until throttle lever is against stop. Tighten clamp screw securely.

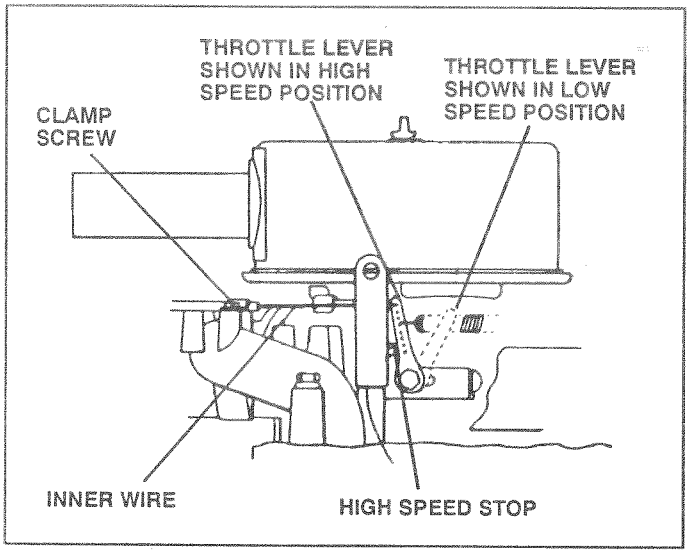


FIG. 40

TO ADJUST CARBURETOR

The carburetor has been preset at the factory and adjustment should not be necessary. However, minor adjustment may be required to compensate for differences in fuel, temperature, altitude or load. If the carburetor does need adjustment, see engine manual packed with your unit.

IMPORTANT: NEVER TAMPER WITH THE ENGINE GOVERNOR, WHICH IS FACTORY SET FOR PROPER ENGINE SPEED. OVERSPEEDING THE ENGINE ABOVE THE FACTORY HIGH SPEED SETTING CAN BE DANGEROUS. IF YOU THINK THE ENGINE-GOVERNED HIGH SPEED NEEDS ADJUSTING, CONTACT YOUR NEAREST AUTHORIZED SERVICE CENTER, WHICH HAS PROPER EQUIPMENT AND EXPERIENCE TO MAKE ANY NECESSARY ADJUSTMENTS.

STORAGE

diately prepare your tractor for storage at the end of ason or if the unit will not be used for 30 days or more.

CAUTION: Never store the tractor with gasoline in the tank inside a building where fumes may reach an open flame or spark. Allow the engine to cool before storing in any enclosure.

ACTOR

ve mower from tractor for winter storage. When r is to be stored for a period of time, clean it thor- y, remove all dirt, grease, leaves, etc. Store in a dry area.

lean entire tractor (See "CLEANING" in the Customer esponsibilities section of this manual).

spect and replace belts, if necessary (See belt re- lacement instructions in the Service and Adjustments ection of this manual).

ubricate as shown in the Customer Responsibilities ection of this manual.

e sure that all nuts, bolts and screws are securely stened. Inspect moving parts for damage, breakage nd wear. Replace if necessary.

ouch up all rusted or chipped paint surfaces; sand ghtly before painting.

TERY

ully charge the battery for storage.

fter a period of time in storage, battery may require charging.

o help prevent corrosion and power leakage during ng periods of storage, battery cables should be isconnected and battery cleaned thoroughly (see "TO LEAN BATTERY AND TERMINALS" in the Cus- mer Responsibilities section of this manual).

fter cleaning, leave cables disconnected and place ables where they cannot come in contact with battery rminals.

e sure battery drain tube is securely attached.

ENGINE

FUEL SYSTEM

IMPORTANT: IT IS IMPORTANT TO PREVENT GUM DEPOSITS FROM FORMING IN ESSENTIAL FUEL SYSTEM PARTS SUCH AS CARBURETOR, FUEL FILTER, FUEL HOSE, OR TANK DURING STORAGE. ALSO, EXPERIENCE INDICATES THAT ALCOHOL BLENDED FUELS (CALLED GASOHOL OR USING ETHANOL OR METHANOL) CAN ATTRACT MOISTURE WHICH LEADS TO SEPARATION AND FORMATION OF ACIDS DURING STORAGE. ACIDIC GAS CAN DAMAGE THE FUEL SYSTEM OF AN ENGINE WHILE IN STORAGE.

- Drain the fuel tank.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- Never use engine or carburetor cleaner products in the fuel tank or permanent damage may occur.
- Use fresh fuel next season.

NOTE: Fuel stabilizer is an acceptable alternative in minimizing the formation of fuel gum deposits during storage. Add stabilizer to gasoline in fuel tank or storage container. Always follow the mix ratio found on stabilizer container. Run engine at least 10 minutes after adding stabilizer to allow the stabilizer to reach the carburetor. Do not drain the gas tank and carburetor if using fuel stabilizer.

ENGINE OIL

Drain oil (with engine warm) and replace with clean engine oil. (See "ENGINE" in the Customer Responsibilities section of this manual).

CYLINDERS

- Remove spark plug(s).
- Pour one ounce of oil through spark plug hole(s) into cylinder(s).
- Turn ignition key to "START" position for a few seconds to distribute oil.
- Replace with new spark plug(s).

OTHER

- Do not store gasoline from one season to another.
- Replace your gasoline can if your can starts to rust. Rust and/or dirt in your gasoline will cause problems.
- If possible, store your unit indoors and cover it to give protection from dust and dirt.
- Cover your unit with a suitable protective cover that does not retain moisture. Do not use plastic. Plastic cannot breathe which allows condensation to form and will cause your unit to rust.

IMPORTANT: NEVER COVER TRACTOR WHILE ENGINE AND EXHAUST AREAS ARE STILL WARM.

TROUBLESHOOTING POINTS

PROBLEM	CAUSE	CORRECTION
Will not start	1. Out of fuel. 2. Engine not "CHOKED" properly. 3. Engine flooded. 4. Bad spark plug. 5. Dirty air filter. 6. Dirty fuel filter. 7. Water in fuel. 8. Loose or damaged wiring. 9. Carburetor out of adjustment. 10. Engine valves out of adjustment.	1. Fill fuel tank. 2. See "TO START ENGINE" in Operation section. 3. Wait several minutes before attempting to start. 4. Replace spark plug. 5. Clean/replace air filter. 6. Replace fuel filter. 7. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 8. Check all wiring. 9. Contact an authorized service center. 10. Contact an authorized service center.
Hard to start	1. Dirty air filter. 2. Bad spark plug. 3. Weak or dead battery. 4. Dirty fuel filter. 5. Stale or dirty fuel. 6. Loose or damaged wiring. 7. Carburetor out of adjustment. 8. Engine valves out of adjustment.	1. Clean/replace air filter. 2. Replace spark plug. 3. Recharge or replace battery. 4. Replace fuel filter. 5. Drain fuel tank and refill with fresh gasoline. 6. Check all wiring. 7. Contact an authorized service center. 8. Contact an authorized service center.
Engine will not turn over	1. Clutch/brake pedal not depressed. 2. Attachment clutch is engaged. 3. Weak or dead battery. 4. Blown fuse. 5. Corroded battery terminals. 6. Loose or damaged wiring. 7. Faulty ignition switch. 8. Faulty solenoid or starter. 9. Faulty operator presence switch(es).	1. Depress clutch/brake pedal. 2. Disengage attachment clutch. 3. Recharge or replace battery. 4. Replace fuse. 5. Clean battery terminals. 6. Check all wiring. 7. Check/replace ignition switch. 8. Check/replace solenoid or starter. 9. Contact an authorized service center.
Engine clicks but will not start	1. Weak or dead battery. 2. Corroded battery terminals. 3. Loose or damaged wiring. 4. Faulty solenoid or starter.	1. Recharge or replace battery. 2. Clean battery terminals. 3. Check all wiring. 4. Check/replace solenoid or starter.
Loss of power	1. Cutting too much grass/too fast. 2. Throttle in "CHOKE" position. 3. Build-up of grass, leaves and trash under mower. 4. Dirty air filter. 5. Low oil level/dirty oil. 6. Faulty spark plug. 7. Dirty fuel filter. 8. Stale or dirty fuel. 9. Water in fuel. 10. Spark plug wire loose. 11. Dirty engine air screen/fins. 12. Dirty/clogged muffler. 13. Loose or damaged wiring. 14. Carburetor out of adjustment. 15. Engine valves out of adjustment.	1. Set in "Higher Cut" position/reduce speed. 2. Adjust throttle control. 3. Clean underside of mower housing. 4. Clean/replace air filter. 5. Check oil level/change oil. 6. Clean and regap or change spark plug. 7. Replace fuel filter. 8. Drain fuel tank and refill with fresh gasoline. 9. Drain fuel tank and carburetor, refill tank with fresh gasoline and replace fuel filter. 10. Connect and tighten spark plug wire. 11. Clean engine air screen/fins. 12. Clean/replace muffler. 13. Check all wiring. 14. Contact an authorized service center. 15. Contact an authorized service center.
Excessive vibration	1. Worn, bent or loose blade. 2. Bent blade mandrel. 3. Loose/damaged part(s).	1. Replace blade. Tighten blade bolt. 2. Replace blade mandrel. 3. Tighten loose part(s). Replace damaged parts.

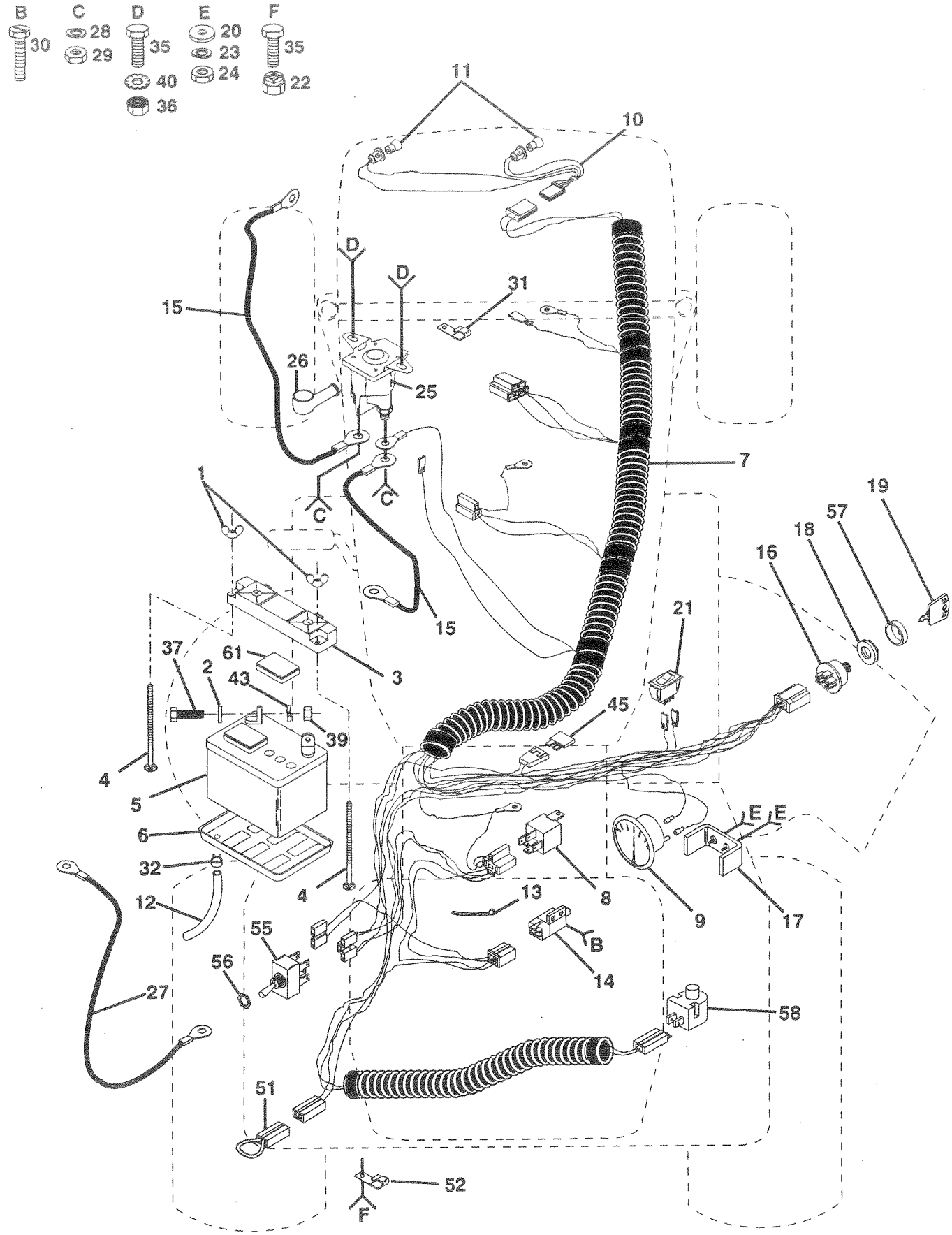
TROUBLESHOOTING POINTS

BLEM	CAUSE	CORRECTION
continues to run perator leaves seat tachment clutch ed	1. Faulty operator-safety presence control system.	1. Check wiring, switches and connections. If not corrected, contact an authorized service center.
ut - uneven	1. Worn, bent or loose blade. 2. Mower deck not level. 3. Buildup of grass, leaves, and trash under mower. 4. Bent blade mandrel.	1. Replace blade. Tighten blade bolt. 2. Level mower deck. 3. Clean underside of mower housing. 4. Replace blade mandrel.
blades will not	1. Obstruction in clutch mechanism. 2. Mower drive belt out of adjustment. 3. Worn/damaged mower drive belt. 4. Frozen idler pulley. 5. Frozen blade mandrel.	1. Remove obstruction. 2. Adjust mower drive belt. 3. Replace mower drive belt. 4. Replace idler pulley. 5. Replace blade mandrel.
rass discharge	1. Engine speed too slow. 2. Travel speed too fast. 3. Wet grass. 4. Mower deck not level. 5. Low/uneven tire air pressure. 6. Worn, bent or loose blade. 7. Buildup of grass, leaves and trash under mower. 8. Mower drive belt worn or out of adjustment. 9. Blades improperly installed. 10. Improper blades used.	1. Place throttle control in "FAST" position. 2. Shift to slower speed. 3. Allow grass to dry before mowing. 4. Level mower deck. 5. Check tires for proper air pressure. 6. Replace/sharpen blade. Tighten blade bolt. 7. Clean underside of mower housing. 8. Replace/adjust mower drive belt. 9. Reinstall blades sharp edge down. 10. Replace with blades listed in this manual.
ght(s) not working quipped)	1. Switch is "OFF". 2. Bulb(s) burned out. 3. Faulty light switch. 4. Loose or damaged wiring. 5. Blown fuse.	1. Turn switch "ON". 2. Replace bulb(s). 3. Check/replace light switch. 4. Check wiring and connections. 5. Replace fuse.
will not charge	1. Bad battery cell(s). 2. Poor cable connections. 3. Faulty regulator (if so equipped). 4. Faulty alternator.	1. Replace battery. 2. Check/clean all connections. 3. Replace regulator. 4. Replace alternator.

REPAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

ELECTRICAL



PAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

CTRICAL

PART NO.	DESCRIPTION
532123198	Wing Nut 1/4-20
819091016	Washer 9/32 x 5/8 x 16 Ga
532102476	Guard, Terminal
872240460	Battery Bolt (Bolt, Carriage, Rd. Hd. Sq. Neck) 1/4-20 x 7-1/21
532121537	Battery
532124886	Battery Tray
532134026	Harness, Ignition (includes item 8)
532109748	Relay
532124900	Ammeter
532127441	Harness, Light Socket
532124893	Bulb, Light
532100541	Tube, Battery Tray
532124756	Cable Tie
532109553	Switch, Interlock, Clutch
532124770	Cable, Battery (Battery to Solenoid)
532102972	Ignition Switch
532131708	Bracket, Ammeter
532124211	Nut, Ignition
532122147	Key
819070818	Washer 7/32 x 1/2 x 18 Gauge
532110712	Switch, Light
873680400	Nut, Crownlock 1/4-20
810101000	Washer, Lock
873911000	Nut
532109081	Solenoid
532131563	Terminal Cover
532124773	Cable, Battery (Battery to Ground)

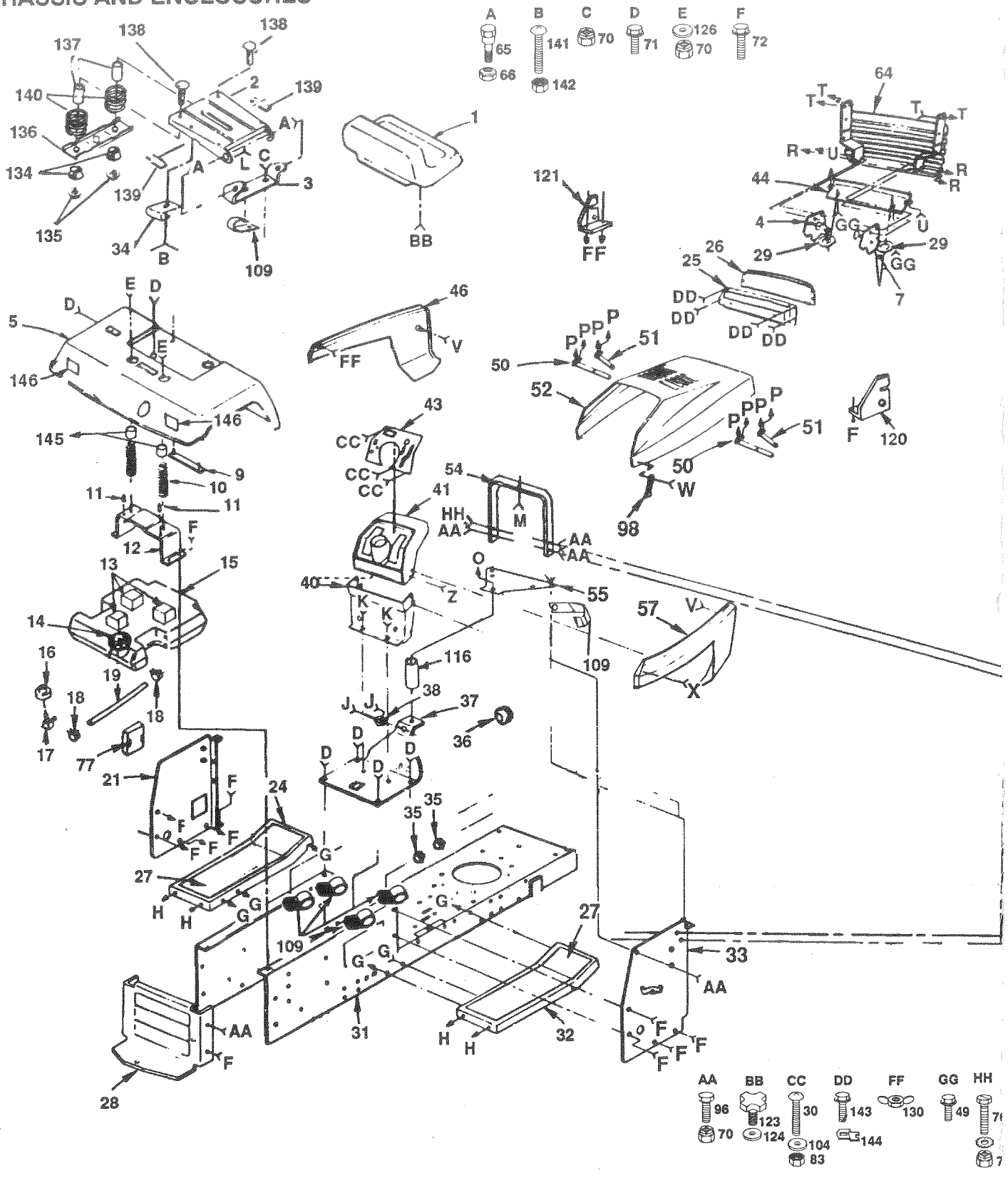
KEY NO.	PART NO.	DESCRIPTION
28	810090400	Washer, Lock
29	873350400	Nut, Hex Jam 1/4 x 20 UNC
30	817021008	Screw, Tap. Hex Hd. #10-24 UNC
31	532124996	Clip, Fuel Line
32	532109596	Clamp, Hose
35	874780408	Bolt,Hex 1/4-20 x 1/2 Gr. 5
36	873510400	Nut, Keps, Hex 1/4-20
37	874760412	Bolt, Hex i/4-20 x 3/4
39	873220400	Nut, Hex 1/4-20
40	811050400	Washer, Lock 1/4 Ext. Tooth
43	810040400	Washer, Lock 1/4
45	532108824	Fuse, 30 Amp.
51	532102501	Loop, Wire Tiller Attachment
52	532124995	Clip, Insulated
55	532126016	Switch PTO
56	532124932	Nut, Hex
57	532123620	Cover Serv Key
58	532121305	Switch, Plunger
61	532121264	Caps, Battery Set
- -	532121549	Decal Battery Caution
- -	532131974	Owner's Manual (English)
- -	532135230	Owner's Manual (French)
- -	532101539	Sheet, Instruction, Tractor 15 ° Slope (English)
- -	532101572	Sheet, Instruction, Tractor 15° Slope (French)

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

REPAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

CHASSIS AND ENCLOSURES



PAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

SSIS AND ENCLOSURES

PART NO.	DESCRIPTION
532127440	Seat
532124294	Pan, Seat
532126656	Bracket, Pivot, Seat
532110855	Bracket, Asm. L.H. Pivot
532124998	Fender
532110854	Bracket, Asm. R.H. Pivot
532105511	Strap, Fender
532124181	Spring, Compression.Seat
532105531	Nut, Push
532105509	Bracket, Fender
532106082	Pad, Spacer
532123549	Cap, Fuel
532106020	Tank, Fuel
532124952	Bushing
532124951	Stem, Tank, Fuel
532123487	Clamp, Hose
532124953	Line, Fuel
532124118	Panel, Dash, L.H.
532124888	Footrest, L.H.
532124939	Bezel, Assembly
532106395	Lens
532128866	Pad, Footrest
532127866	Drawbar
819111212	Washer, 11/32 X 3/4 X 12 Ga.
874180512	Screw, Cr. Thd. 5/16-18 x 3/4
532127213	Chassis
532124889	Footrest, R.H.
532133748	Panel, Dash, R.H.
532124967	Clip, Insulated
532110436	Grommet, Split
532124934	Grommet
532124766	Saddle
532124720	Bushing, Steering
532104805	Dash Assembly, Lower
532124252	Dash
532125004	Nut, Weld
532124769	Plate, Dash
532124978	Strap, Grill
532125353	Panel, Side, L.H.
817190412	Screw, Hex Wsh. Thd. Cut 1/4-20 X 3/4
819091016	Washer 9/32 X 5/8 X 16 Ga.
817490512	Screw, Hex Wsh Thdrol 5/16-18 X 3/4
532106784	Strap Assembly, Hinge, Rear
532104618	Strap Assembly, Hinge, Front
532125351	Hood
532124130	Support, Dash
532106965	Plate, Support, Battery
532125367	Panel, Side R.H.
532122100	Grill Assembly
532105529	Bolt, Shoulder 5/16-18
873680500	Nut, Lock 5/16-18
819091216	Washer 9/32 X 3/4 X 16 Ga.
873680600	Nut, Crownlock 3/8-16
817490608	Screw, Hex Washer Thread Rolling 3/8-16 x 1/2

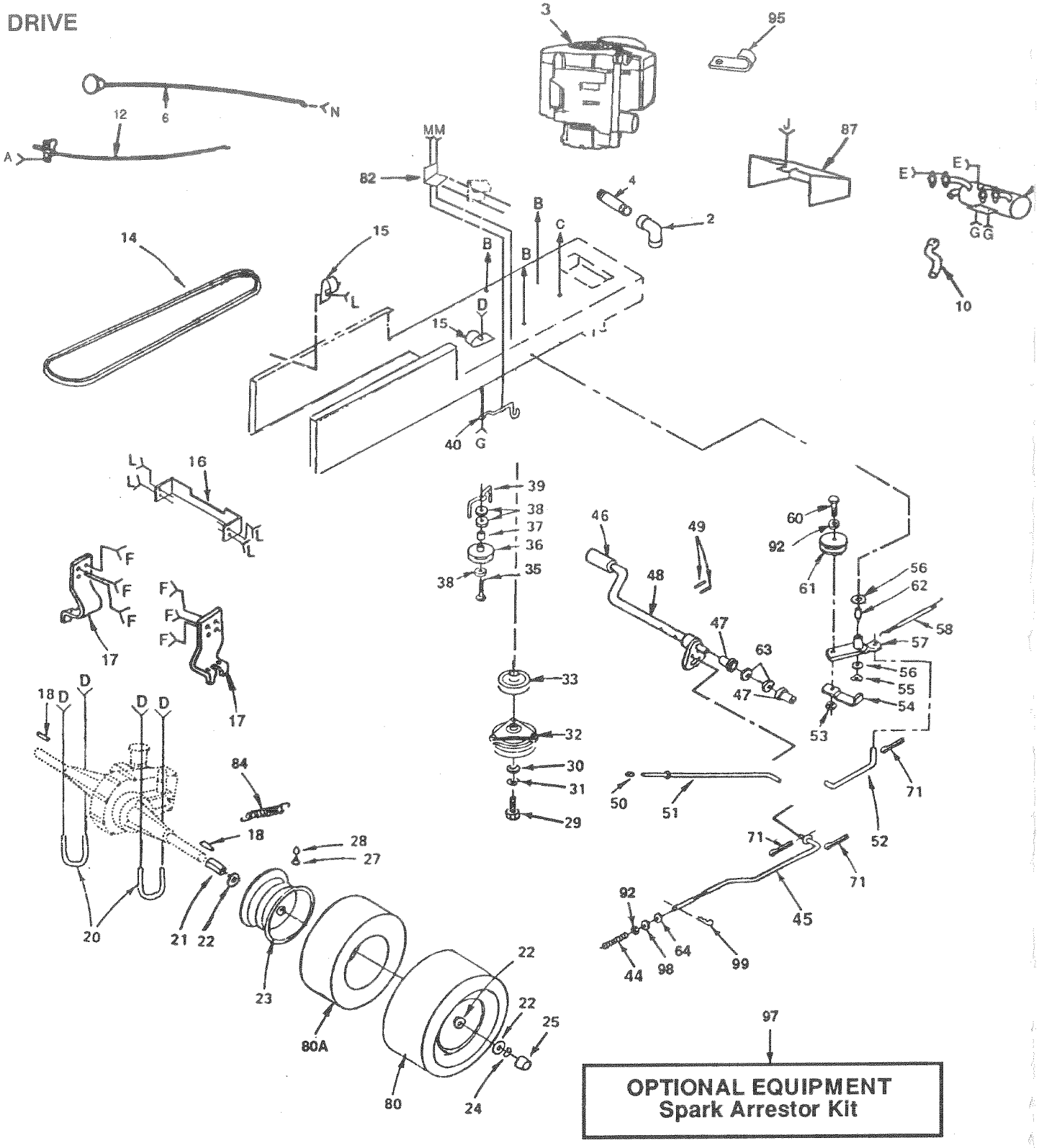
KEY NO.	PART NO.	DESCRIPTION
72	817490612	Screw, Hex Washer Thread Rolling 3/8-16 x 3/4
74	872110606	Bolt, Carriage 3/8-16 x 3/4
75	817431008	Screw, Hex Self Tapping #10-16 x 1/2
76	874760616	Bolt, Hex 3/8-16 x 1
77	532121794	Cover, Access
80	873510400	Nut, Hex Keps
81	873220400	Nut, Hex 1/4-20
82	874760532	Bolt, Hex 5/16-18 x 2
83	873510500	Nut, Keps 5/16-18
88	532123481	Bolt, Shoulder 1/4-20
89	873680400	Crownlock Nut 1/4-20
90	874191008	Screw, Pan Hd. Mach. #10-24 1/2
91	810071000	Washer, Lock #10
93	819131312	Washer 13/32 x 13/16 x 12 Ga.
94	873220400	Nut, Fin Hex 1/4-20 UNC
96	874760612	Bolt, Hex 3/8-16 x 3/4
98	532109808	Latch, Hood
99	873731000	Nut, Keps 10-24
100	532007206	Spacer, Split 10 x 3/4
101	819070818	Washer 7/32 x 1/2 x 18 Ga.
102	874981020	Screw, Mach. Cr. Pan 10-24 x 1-1/4
104	819111116	Washer 11/32 x 11/16 x 16 Ga.
109	532124996	Clip
116	532121236	Spacer
120	532110853	Bracket Assembly, R.H.
121	532110852	Bracket Assembly, L.H.
123	532120068	Adjustment Knob
124	819171912	Washer 17/32 x 1-3/16 x 12 Ga.
125	811050600	Washer Lock 3/8 Ext. Tooth
126	819131614	Washer 13/32 x 1 x 14 Ga.
130	532123198	Wing Nut
131	811050400	Washer, 1/4 Ext. Tooth
134	532121248	Bushing, Snap .80
135	532123976	Nut, Hex, Large, Flange, Lock
136	532121246	Bracket, Switch Mount
137	532121249	Spacer, Split .28 x .88
138	872050411	Bolt, Carr. 1/4-20 x 1-3/8
139	532121251	Foam Strip
140	532123740	Spring. Compression
141	874641008	Screw, Pan Hd. #10-32
142	873951000	Nut, Keps #10
143	817211010	Screw, Hex WH HD Tap #10-16 X 5/8
144	532104755	"J" Fastener
145	532124238	Spring Cap
146	532106202	Reflector Taillight
147	532127018	Bolt, Shoulder 5/16-18 x .62
- -	532133899	Decal, Hood L.H.
- -	532133898	Decal, Hood R.H.
- -	532127639	Decal, Chassis, Poulan Pro
- -	532101892	Decal, Clutch/Brake
- -	532108813	Decal, Instructions, Caution
- -	532127630	Decal, Grill
- -	532133900	Decal, Fender
- -	532120822	Decal, Caution

NOTE: All component dimensions given in U.S. inches.
1 inch = 25.4 mm

REPAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

DRIVE



OPTIONAL EQUIPMENT
Spark Arrestor Kit

A	B	C	D	E	F	G	J	L	M	N
65	66	66	53	9	72	69	89	68	83	67
		67				38		53		8
						53	88			

PAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

'E

PART NO.	DESCRIPTION
532125890	Muffler
813200300	Elbow, STD 90 3/8-18NPT
- - - - -	Engine, Kohler MV18
813280336	Nipple, Pipe
532132781	Control, Choke
873610600	Nut, Fin Hex 3/8-24 UNF
874570512	Screw, Hex Socket 5/16-18 x 3/4
532128144	Tube Exhaust
532133024	Control, Throttle
532123461	V-Belt, Drive
532124996	Clip
532121187	Bracket, Mounting, Hydro T/A
532126649	Bracket, Transaxle
532123583	Key, Square 1/4 x 2
532121189	U-Bolt, 3/8-16 x 2-3/4
532121199	Spacer, Split
532121748	Washer 1-1/32 x 1-5/8 x 16 Ga,
532124723	Rim, Rear
812000001	E-Ring
532104757	Cap, Axle
532065139	Stem, Valve
532059192	Cap, Valve
532126197	Washer 1-1/2 OD X 15/32 ID X .250
810040700	Washer, Lock 7/16
532126112	Clutch, Electric
532109841	Pulley, Engine
874760644	Bolt, Hex 3/8-16 x 2-3/4
532004859	Idler, Flat
532004470	Spacer
819131312	Washer 13/32 x 13/16 x 12 Ga.
532109070	Keeper, Belt
532129921	Keeper, Belt Engine Lh Lt
532105730	Belt, Keeper, Engine R.H.
532106888	Spring, Rod, Brake
532132654	Rod, Brake
532124872	Cover, Pedal
532120183	Bearing, Nylon
532122424	Shaft, Foot Pedal, Asm.
532124963	Pin, Roll 3/16 x 1

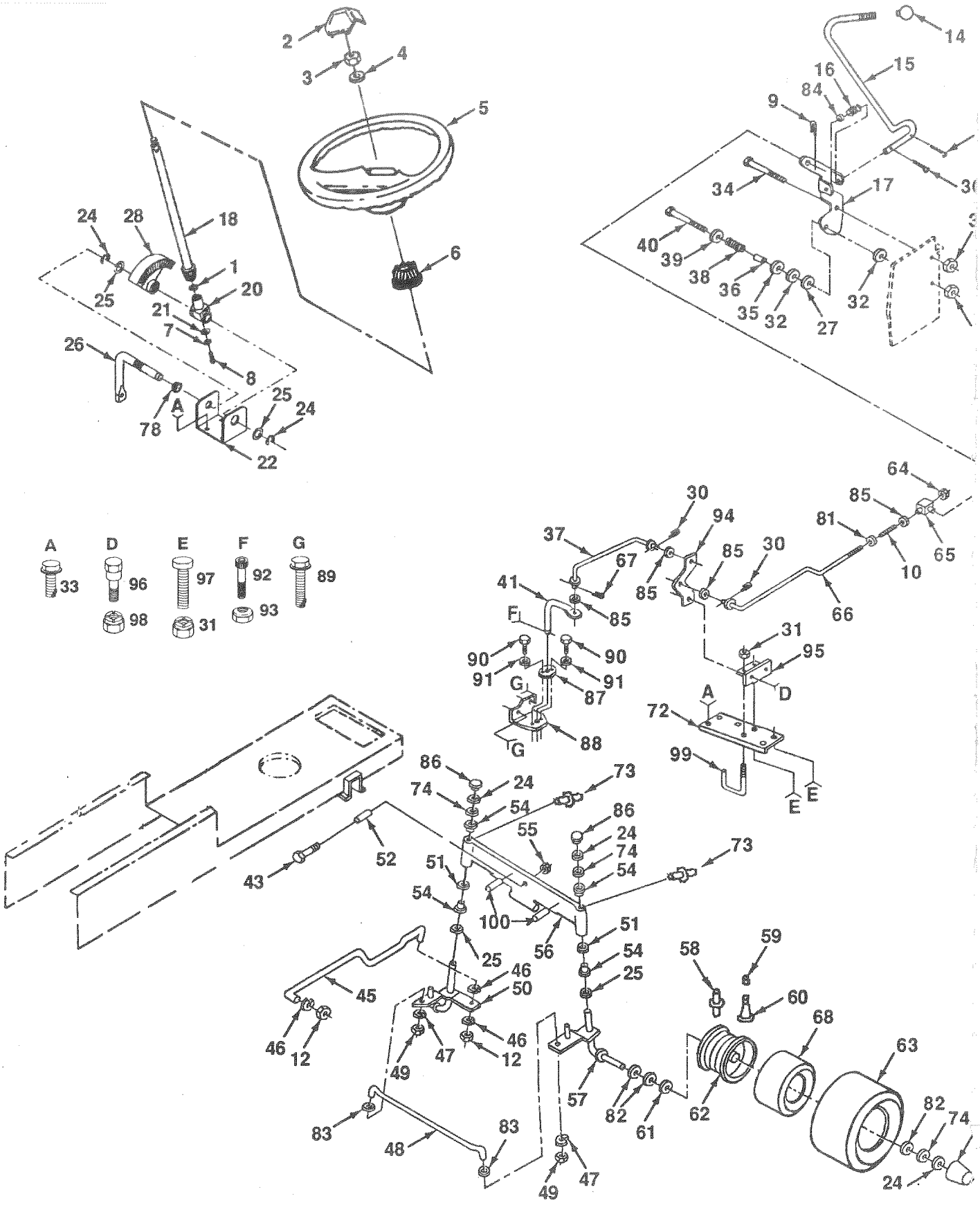
KEY NO.	PART NO.	DESCRIPTION
50	532071673	Cap, Plunger
51	532133261	Rod, Brake, Park
52	532105710	Link, Clutch
53	873680600	Locknut, 3/8-16
54	532123205	Retainer, Belt
55	812000039	Klip Ring
56	532110812	Washer, Hardened
57	532123789	Arm, Asm, Idler (Incl. Key No. 62)
58	532105709	Spring, Return, Clutch
60	874760624	Bolt, Hex, 3/8-16 x 1-1/2
61	532127783	Idler, V. Grove
62	532105706	Bearing
63	819211616	Washer, 21/32 x 1 x 16 Ga.
64	873800600	Nut
65	817720410	Screw, Hex Thread Cut 1/4-20 x 5/8
66	817490624	Screw. Thdrol 3/8-16 x 1-1/2
67	811050600	Washer, Lock Ext Tooth 3/8
68	874760612	Bolt, Hex 3/8-16 x 3/4
69	874760616	Bolt, Hex 3/8-16 x 1
71	876020412	Pin, Cotter, 1/8 x 3/4
72	817490612	Screw, Hex, Thdrol 3/8-16 X 3/4
80	532122082	Tire
80A	532007152	Tube
82	532108236	Bracket, Switch
83	817021008	Screw, Tap. Hex Hd. #10-24 x 1/2 Type T
84	532110422	Spring, Brake Return
87	532125891	Shield Heat
88	819060916	Washer
89	817030808	Screw Spiderlock Hex Hd #8 x 1/2
92	819131316	Washer, 13/32 X 13/16 X 16 Ga.
95	532122758	Clamp Muffler
97	532121851	Spark Arrestor
98	873350600	Nut, Hex Jam 3/8 X 16 UNC
99	532124788	Clip, Hairpin
- -	532132506	Decal, HP Engine

NOTE: All component dimensions given in U.S. inches.
1 inch = 25.4 mm

REPAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

STEERING AND FRONT AXLE



PAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

ERING AND FRONT AXLE

PART NO.	DESCRIPTION
532057079	Washer
532126805	Insert, Steering Wheel
873940800	Nut, Toplock, Jam 1/2-20
532100712	Washer
532121472	Wheel, Steering
532100711	Adapter, Steering Wheel
810040400	Washer, Lock 1/4
871070410	Screw, Hex, Socket 1/4-20 x 5/8
532124961	Spring, Retainer
532102670	Spring, Compression
873610600	Nut, Hex, Fin 3/8-24 UNF
532104757	Cap, Axle
532121274	Knob, Gearshift
532110845	Rod, Control
532121631	Spring, Torsion
532108196	Bracket, Control Rod
532128762	Shaft, Steering
532124035	Support, Shaft
532126684	Washer, Shim 1/4 x 5/8 x .062
532124036	Bracket, Steering
812000029	Ring, Klip
532124931	Bearing, Thrust
532127501	Shaft, Pitman
532108972	Washer, Phenolic
532124034	Gear, Sector
876020412	Pin, Cotter 1/8 x 3/4
873680600	Nut, Crownlock 3/8-16
532108200	Washer, Friction
817490612	Screw, Hex, Washer Thrdrol. 3/8-16 x 3/4
532108518	Bolt, Hex, Shoulder 3/8-16 x 1-3/8
819212016	Washer 21/32 x 1-1/4 x 16 Gauge
532108201	Spacer
532121202	Link, Control, Pump
532108844	Spring, Compression
819132012	Washer 13/32 x 1-1/4 x 12 Gauge
874760648	Bolt, Hex 3/8-16 x 3
532121209	Lever, Pump Control
874011056	Bolt, Hex 5/8-11 x 3-1/2
532130468	Link, Drag
810040600	Washer, Lock 3/8
810040500	Washer, Lock 5/16
532130467	Rod, Tie
873810500	Nut, Hex 5/16-24 UNF
532130460	Spindle, L.H.

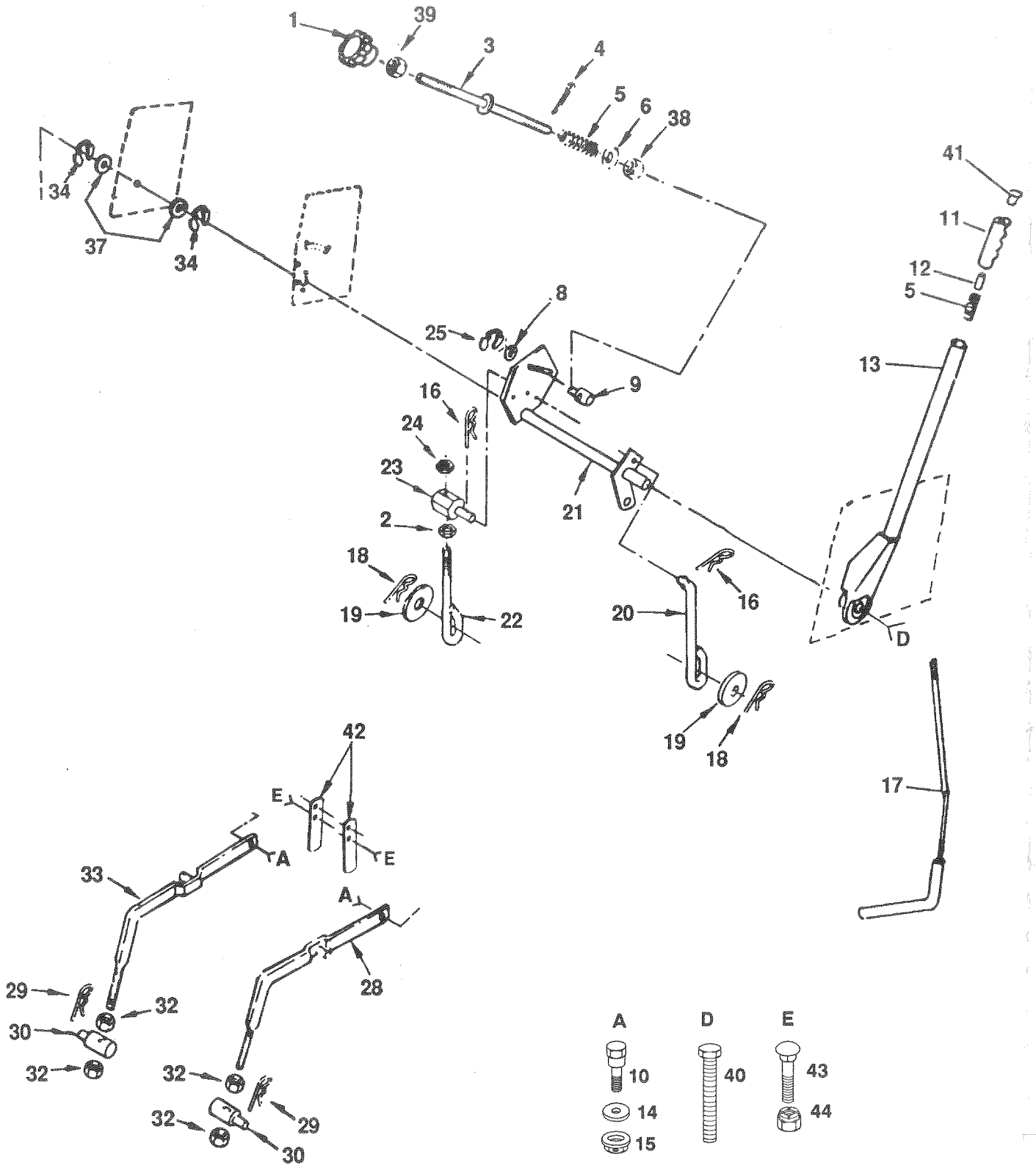
KEY NO.	PART NO.	DESCRIPTION
51	819272016	Washer 27/32 x 1-1/4 x 16 Gauge
52	532110438	Spacer, Bearing
54	532124937	Bearing
55	873601000	Locknut, Flange 5/8-11
56	532108075	Axle, Front
57	532130459	Spindle, R.H.
58	532124957	Fitting, Grease
59	532065139	Stem, Valve
60	532059192	Cap, Valve
61	532124959	Bearing
62	532124801	Rim, Front
63	532106222	Tire, Front
64	873800600	Locknut, Hex w/Washer Insert 3/8-16 UNC
65	532108212	Trunnion
66	532121750	Rod, Control, Adjustable
67	532124788	Clip, Hairpin
68	532059904	Tube (Optional, Service Part)
72	532123186	Bracket ,Chassis, Reinforcement, Hydro
73	532124836	Fitting, Grease
74	532121748	Washer 25/32 x 1-5/8 x 16 Gauge
78	532109816	Nyliner, Snap In
81	819131212	Washer 13/32 x 3/4 x 12 Gauge
82	532121749	Washer 25/32 x 1-1/4 x 16 Gauge
83	819111216	Washer 11/32 x 3/4 x 16 Gauge
84	819151516	Washer 15/32 x 15/16 x 16 Gauge
85	532110739	Washer, Spring
86	532121232	Cap, Spindle
87	532121217	Guide, Control
88	532121216	Bracket Control Guide
89	817490512	Screw, Hex, Washer Thrdrol. 5/16-18 x 3/4 Type TT
90	817021010	Screw, Hex Tap #10-24 UNC x .625
91	819070816	Washer 7/32 x 1/2 x 16 Gauge
92	874561014	Screw, Hex, Socket Head #10-24 UNC
93	532069180	Locknut #10-24 UNC
94	532121204	Bellcrank
95	532121206	Bracket, Bellcrank Pivot
96	532100536	Bolt, Shoulder
97	874760616	Bolt, Hex, Fin 3/8-16 UNC x 1
98	873680500	Nut, Crownlock 3/8-16 UNC x 1
99	532121190	Keeper, Centerspan
100	532132624	Pin, Axle
- -	532127646	Decal, Steering Wheel Cap

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

REPAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

LIFT ADJUSTMENT



PAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

ADJUSTMENT

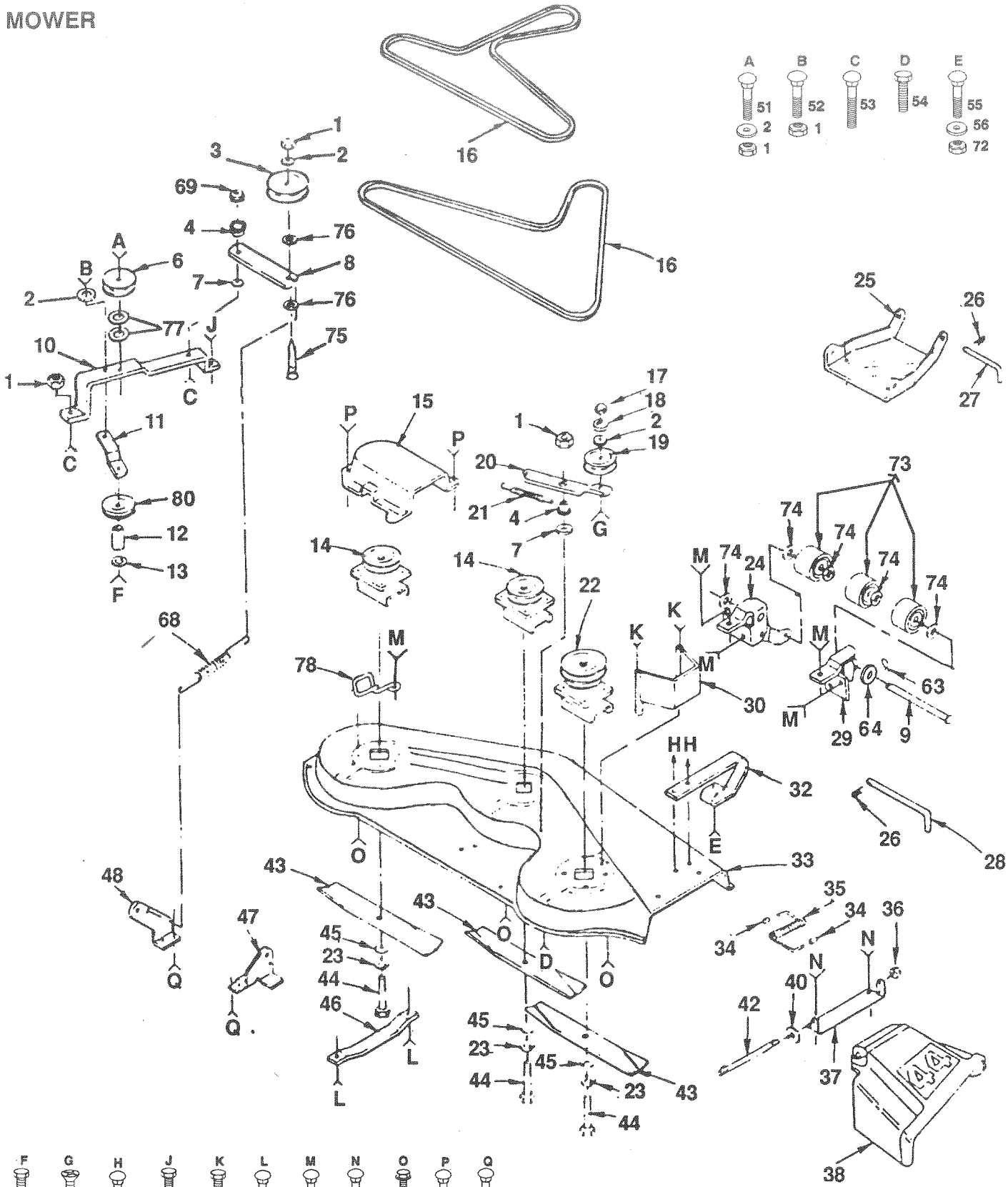
KEY NO.	PART NO.	DESCRIPTION
1	532121891	Knob, Depth Adjustment
2	873360700	Nut, Hex 3/8-16
3	532110729	Rod, Adjust, Lift
4	876020308	Pin, Cotter 3/32 x 1/2
5	532124874	Spring
6	819131016	Washer 13/32 x 5/8 x 16 Ga.
8	819151216	Washer 15/32 x 3/4 x 16 Ga.
9	532110810	Trunnion
10	532105848	Bolt, Shoulder 3/8-16
11	532109413	Grip Handle
12	532122364	Plunger, Lever
13	532121002	Lever, Lift (Includes Key No. 17)
14	532110739	Spring Washer
15	873980600	Center Lock Flange Nut 3/8 x 16
16	532124670	Retainer, Spring
17	532121006	Rod, Lever
18	532124961	Retainer Spring
19	819171516	Washer, 17/32 x 15/16 x 16 Ga.
20	532110029	Link, Lift
21	532131925	Shaft, Lift
22	532110448	Link Lift, Adjust
23	532110447	Trunnion, Lift
24	873710700	Nut, Lock 7/16-14
25	812000037	Klip Ring
28	532121598	Arm, Suspension R.H.
29	532124960	Retainer, Spring
30	532106308	Trunnion, Lift, Lower
32	873220800	Nut, Hex Fin. 1/2- 13
33	532121599	Arm, Suspension, L.H.
34	812000022	E - Ring, Truarc
37	819292016	Washer 29/32 x 1-1/4 x 16 Ga.
38	532110807	Nut, Special
39	873350600	Nut, Hex Jam 3/8 x 16 UNC
40	874780624	Bolt, Hex 3/8-16 x 1-1/2
41	532124526	Button, Plunger
42	532121252	Upstop, Mower
43	872140608	Bolt, Carriage 3/8-16 x 1
44	873680600	Nut, Crownlock 3/8-16

NOTE: All component dimensions given in U.S. inches.
1 inch = 25.4 mm

REPAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

MOWER



PAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

VER

PART NO.	DESCRIPTION
873680600	Locknut 3/8 x 16
819131614	Washer 13/32 x 1 x 14 Ga.
532121316	Pulley, Idler
532106902	Spacer
532124858	Pulley, Idler
532106513	Washer, Wear
532121425	Arm, Idler
532109776	Pin, Pivot
532106523	Bar, Support, Idler
532106522	Brace, Idler, Deck
532121236	Spacer
819131316	Washer 13/32 x 13/16 x 16 Ga.
532121658	Mandrel, Secondary
532106214	Guard
532106085	V-Belt
873220600	Nut, Hex 3/8 x 16
810040600	Washer, Lock 3/8
532102932	Idler, Flat
532106526	Arm, Idler, Deck
532124885	Spring, Extension
532121705	Mandrel, Primary
810030600	Washer, Lock, Hvy. Helical
532109599	Bracket, Lift, LH
532105662	Link, Parallel
532124961	Retainer, Spring
532105744	Pin, Front, Hinge
532109835	Pin, Rear, Hinge
532109600	Bracket, Lift, RH
532108119	Guard, Belt, RH
532124950	Runner, RH
532121423	Housing, Mower
532105304	Cap, Sleeve
532106734	Spring
532110452	Nut, Push
532109743	Bracket, Deflector
532109785	Guard, Discharge
819111016	Washer 11/32 x 5/8 x 16 Ga.
532106735	Rod, Hinge
532106635	Blade
874610624	Bolt, Hex 3/8 -24 x 1 1/2 Gr.5
819132012	Washer 13/32 x 1 1/4 x 12 Ga.

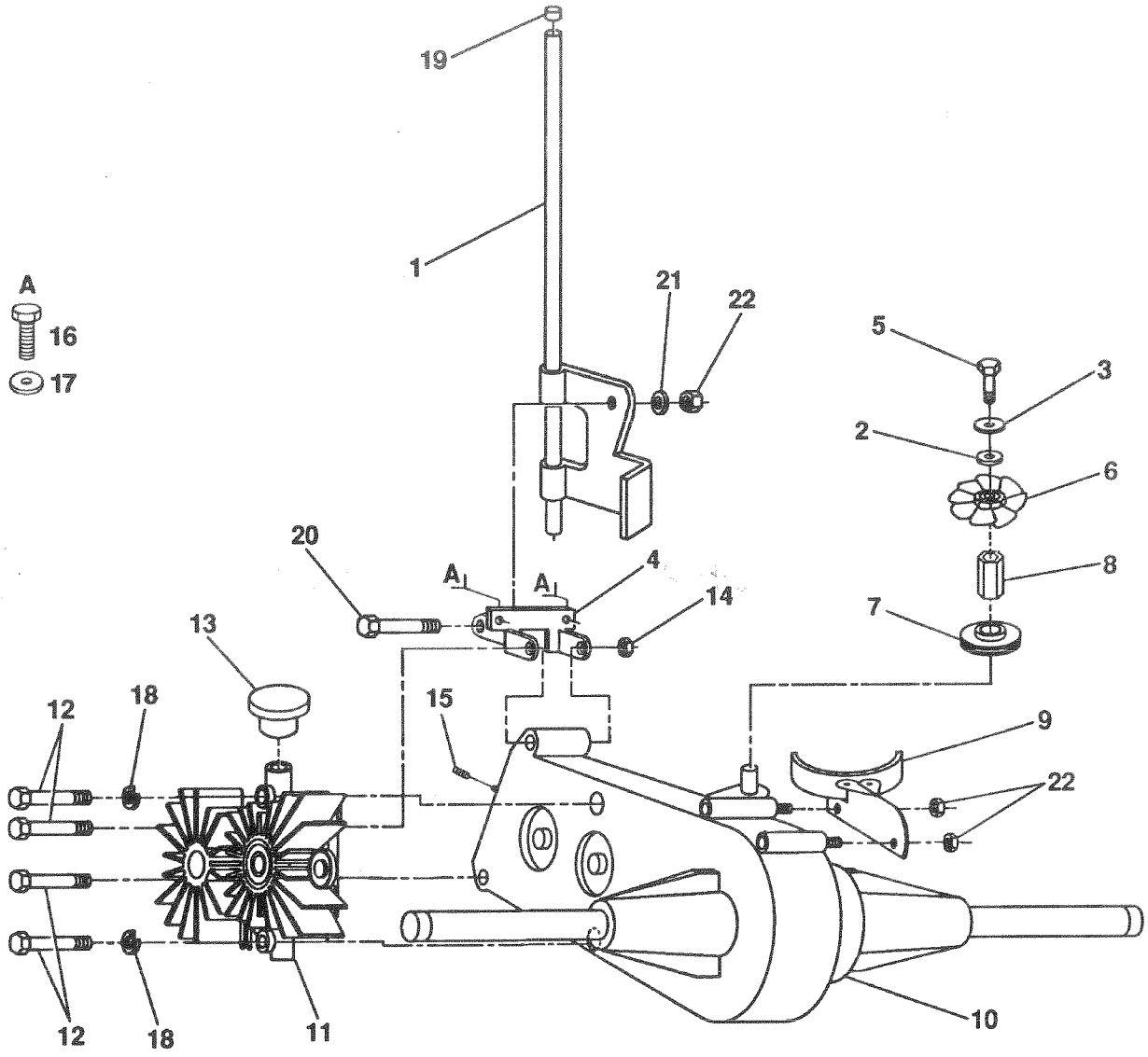
KEY NO.	PART NO.	DESCRIPTION
46	532125074	Runner, LH
47	532123807	Bracket, Suspension, Rear, RH
48	532123808	Bracket, Suspension, Rear, LH
51	872140614	Bolt, Carriage 3/8-16 x 1-3/4
52	872140608	Bolt, Carriage 3/8-16 x 1
53	872140612	Bolt, Carriage 3/8-16 x 1 1/2
54	874760620	Bolt, Hex 3/8-16 x 1-1/4
55	872140506	Bolt, Carriage 5/16-18 x 3/4
56	819111116	Washer 11/32 x 11/16 x 16 Ga.
57	873680500	Locknut 5/16-18
58	874760648	Bolt, Hex 3/8-16 x 3
59	874110632	Screw, Flat Head 3/8-16 x 2
60	874760616	Bolt, Fin. Hex 3/8-16 X 1
61	819111216	Washer 11/32 x 3/4 x 16 Ga.
62	874760580	Bolt, Hex 5/16-18 x 5
63	876020412	Pin, Cotter
64	819151616	Washer, 15/32 X 1X 16 Ga.
66	817490612	Screw, Hex Washer Thread Rolling 3/8-16 x 3/4
67	872140606	Bolt, Carriage 3/8-16 x 3/4
68	532102727	Spring, Extension
69	873930600	Nut.Centerlock 3/8-16
70	872110506	Bolt, Carriage 5/16-18 x 3/4
72	532124949	Locknut 5/16-18
73	532109729	Roller, Nose
74	819151610	Washer 15/32 x 1 x 10 Ga.
75	872140620	Bolt, Carriage 3/8-16 x 2-1/2
76	819131210	Washer 13/32 x 3/4 x 10 Ga.
77	819131410	Washer 13/32 x 7/8 x 10 Ga.
78	532121352	Keeper, L.H. Mandrel
79	872110505	Bolt, Carriage 5/16-18 x 5/8
80	532102403	Idler, Pulley
- -	532121826	Deck, Mower Complete
- -	532105185	Decal, Instruction Caution (Bloody Finger)
- -	532121349	Decal, Danger Warning (Rotating Blades)

NOTE: All component dimensions given in U.S. inches. 1 inch = 25.4 mm

REPAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

TRANSAXLE AND PUMP ASSEMBLY



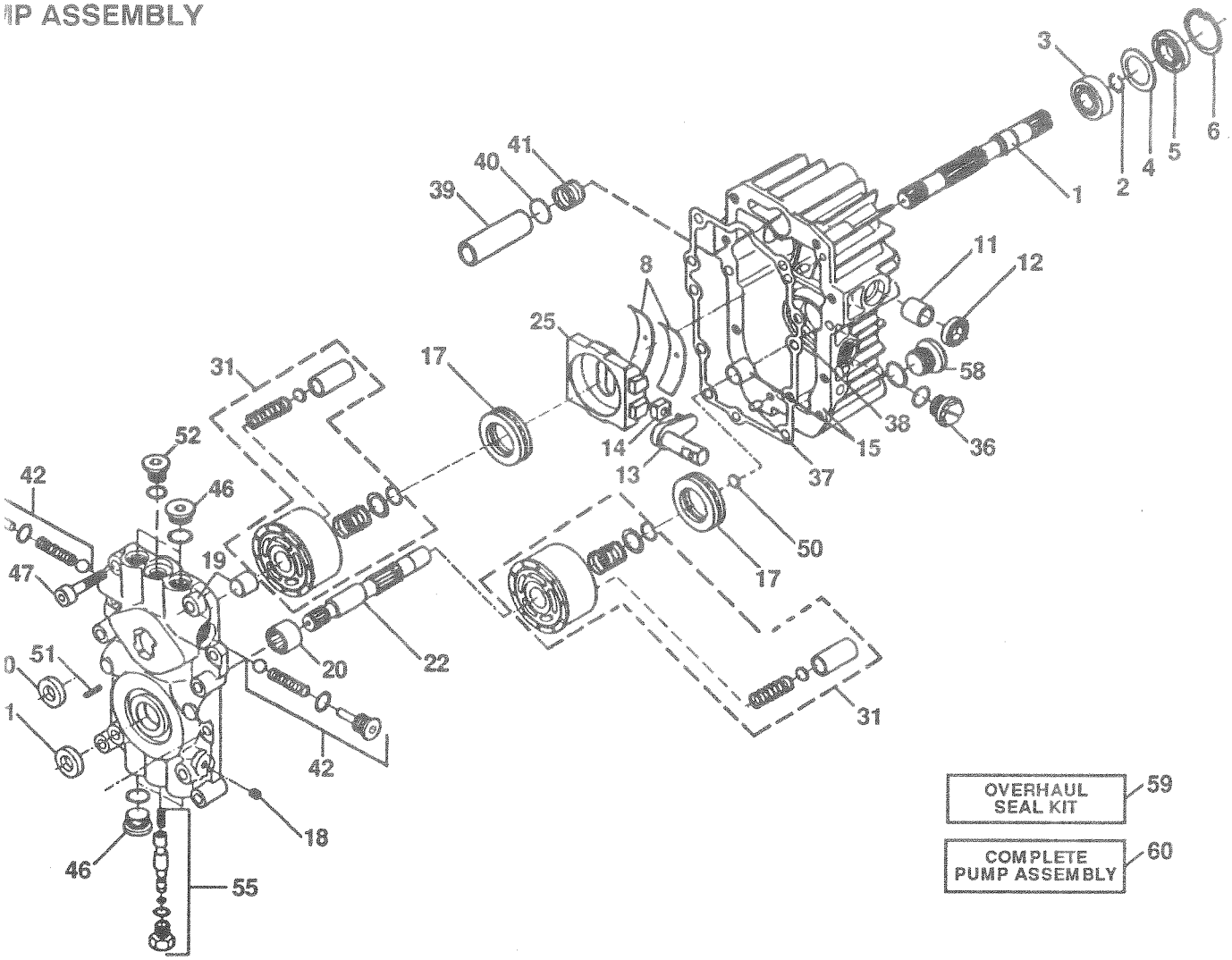
KEY NO.	PART NO.	DESCRIPTION
1	532123634	Free Wheel Control Assembly
2	819092016	Washer 9/32 x 1-1/4 x 16 Gauge
3	810040400	Washer, Lock 1/4
4	532121188	Bracket, Pnt., Mounting, Differential
5	874780412	Bolt, Hex 1/4-20 UNC x 3/4
6	532121186	Fan, Hydro, 8"
7	532121180	Pulley, Transaxle
8	532121211	Standoff, Fan, Hydro
9	532121182	Guard Assembly, Belt
10	532121431	Differential Assembly
11	532121430	Pump Assembly
12	874760572	Bolt, Hex, Fin 5/16-18 UNC x 4-1/2
13	532121323	Reservoir, Pump
14	873680500	Nut, Crownlock 5/16-18
15	532121250	Spring, Compression
16	874760612	Bolt 3/8-16 x 3/4
17	873680600	Nut 3/8-16 UNC
18	810040500	Washer, Lock
19	532071673	Cap
20	532124815	Bolt, Shoulder 1/4-20 UNC
21	532120529	Washer, Nylon
22	873680400	Nut, Crownlock 1/4-20 UNC

NOTE: All component dimensions given in U.S. inche
1 inch = 25.4 mm

PAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

IP ASSEMBLY



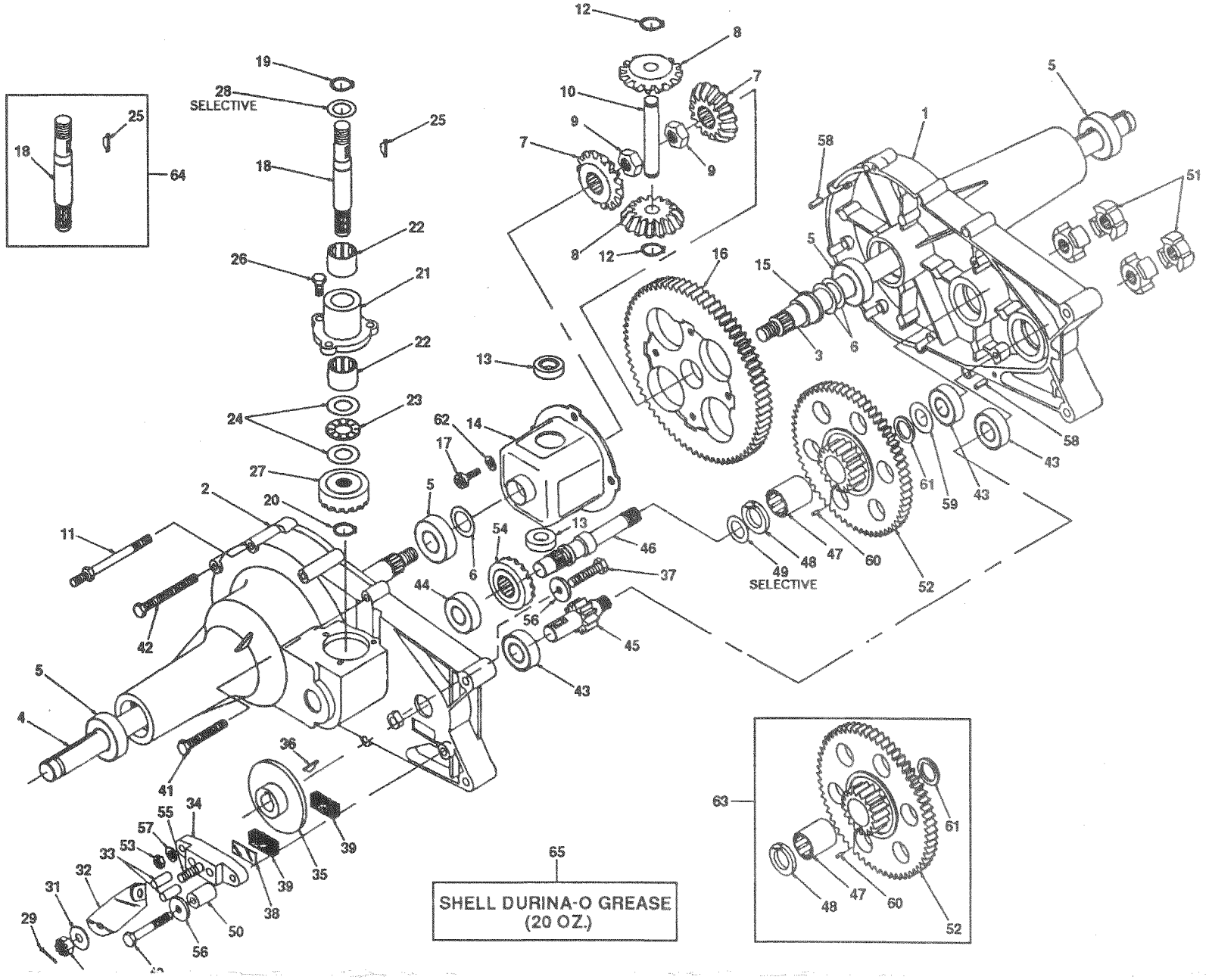
PART NO.	DESCRIPTION
32122756	Shaft, Pump
32122716	* Ring, Retaining
32122745	Bearing, Ball
32122715	* Spacer
32122700	* Seal, Lip
32122699	* Ring, Retaining
32122767	Bearing, Cradle
32122747	Bearing, Journal
32122717	* Seal, Lip
32122748	Arm, Trunnion
32122749	Guide, Slot
32127146	Housing Kit, Transmission
32122770	Bearing, Thrust, Ball
32122771	Plug, Pipe
32127147	Center Section Kit
32122773	Bearing, Needle
32122722	* Seal, Lip
32122750	Shaft, Motor
32127148	Swashplate, Variable
32122723	* Seal, Lip

KEY NO.	PART NO.	DESCRIPTION
31	532127149	Block Kit, Cylinder
36	532127151	Plug, Plastic
37	532122786	Pin, Stainless, Headless
38	532122718	* Gasket, Center Section
39	532122731	Filter
40	532122730	Washer, Thrust
41	532122728	Spring, Helical, Compression
42	532127152	Check Valve Kit
46	532122787	Plug, Stainless, Threaded
47	532122752	Screw, Socket Head, Cap
50	532122788	Washer, Thrust
51	532122789	Pin, Spiral
52	532122754	Plug, Stainless, Threaded
55	532127153	Bypass Valve Kit
58	532122790	Plug, Stainless, Threaded
59	532127154	Overhaul Seal Kit, BDU-10 **Includes:** Items marked with an asterisk (*); O-Rings for Check Valves and Bypass Valve
60	532121430	Pump Assembly, Complete

REPAIR PARTS

16 HP 44" RIDING YARD TRACTOR - - MODEL NUMBER PP16H44

AGRI-FAB TRANSAXLE MODEL NUMBER 121431X



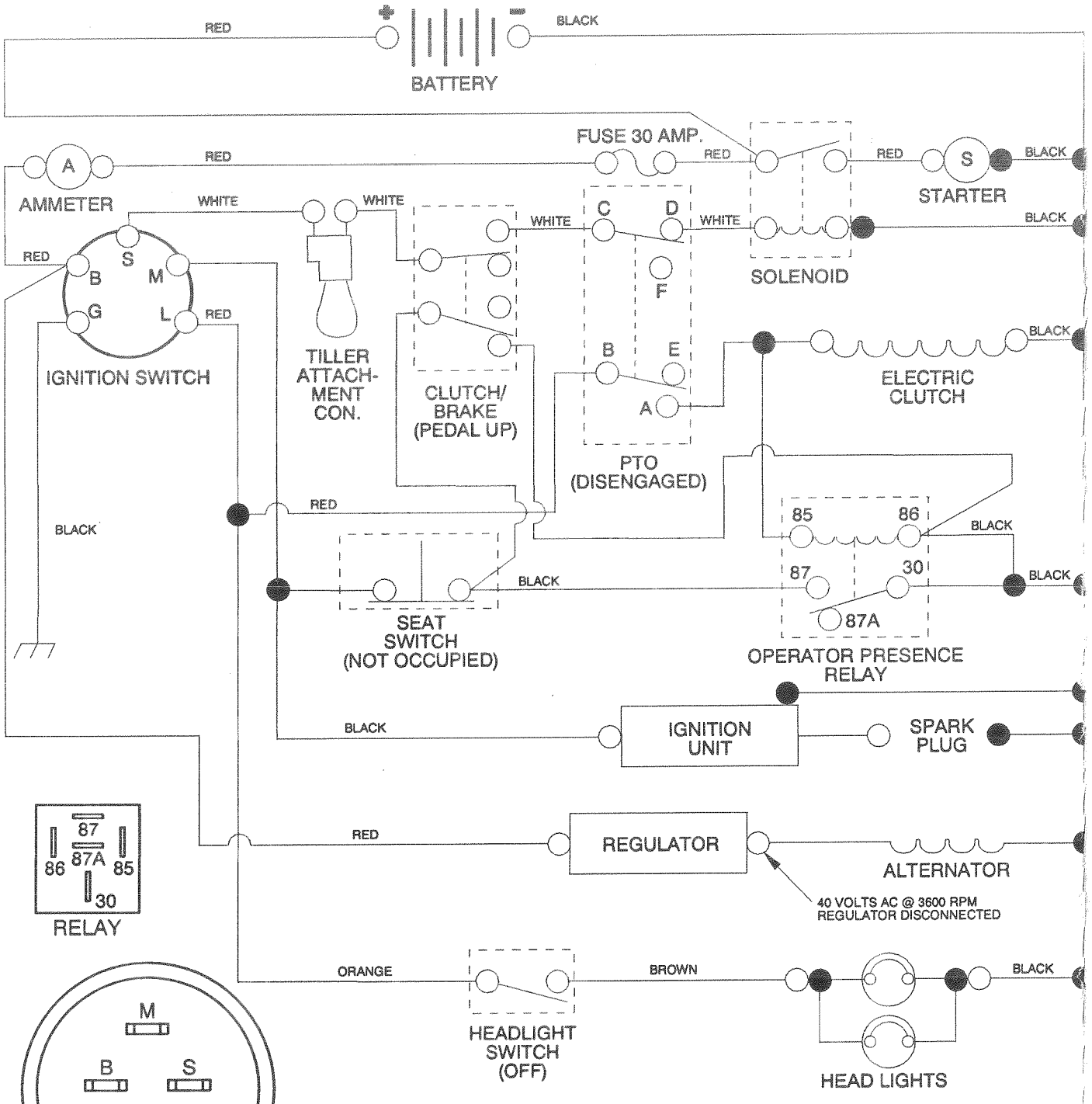
AGRI-FAB TRANSAXLE MODEL NUMBER 121431X

KEY NO.	PART NO.	DESCRIPTION
1	532122614	Housing, Half L.H.
2	532122615	Housing, Half R.H.
3	532122616	Axle L.H.
4	532122620	Axle R.H.
5	532122621	Bearing, Ball
6	532122622	Washer, Flat 3/4 x 1-1/8 x .030
7	532122623	Gear, Miter
8	532122624	Gear, Miter
9	532122625	Nut, Hex Jam w/Patch 1/2-20
10	532122626	Shaft, Cross
11	532122688	Screw, Stud
12	532122629	Snap, Ring
13	532122631	Bearing, Thrust
14	532122633	Housing Assembly, Differential
15	532122634	Bearing, Flange
16	532122640	Gear, Differential 72 Tooth
17	532122641	Bolt, Torx Head 1/4-28 x 5/8"
18	532122642	Shaft, Input
19	532122643	Snap, Ring
20	532122644	Retaining Ring 7/16"
21	532122645	Housing, Input Bearing
22	532122646	Bearing, Needle
23	532122647	Bearing, Thrust
24	532122648	Washer, Flat 5/8 x 1-1/8 x .030
25	532122649	Key, Hi-Pro 3/32 x 5/8
26	532122650	Screw, Hex W/Patch 1/4-20 x 3/4
27	532122651	Gear, Input Pinion 17 Tooth
28	532123061	Washer, Flat .62 x 1 x .05
--	532122678	Washer, Flat .62 x 1.125 x .060
--	532122654	Washer, Flat .62 x 1 x .040
29	532122656	Pin, Cotter
30	532122653	Nut, Castle 5/16-24
31	532122659	Washer, Flat .343 x .88 x .062
32	532122660	Arm, Brake Actuator
33	532122662	Pin, Brake Actuating
34	532122663	Brake, Yoke
35	532122664	Disc, Brake
36	532123065	Key, Hi-Pro 3/16 x 5/8"
37	532122666	Screw, Hex 1/4-20 x 1.50
38	532122667	Plate, Puck
39	532122668	Puck, Brake
40	532123066	Screw, Hex w/Patch 1/4-20 x 2.00
41	532122670	Screw, Hex Self-Tap 1/4-20 x 2.00
42	532122671	Screw, Hex Self-Tap 1/4-20 x 3.00
43	532126982	Bearing, Ball
44	532122673	Bearing, Ball
45	532122674	Shaft, Pinion W/11 Tooth Gear
46	532122675	Shaft, Drive
47	532123059	Bearing, Needle
48	532123060	Bronze Thrust Brg. 5/8 x 1-1/4 x 7/64
49	532123061	Washer, Flat .62 x 1.0 x .050
--	532122654	Washer, Flat .62 x 1.0 x .040
50	532122689	Spacer
51	532121839	Coupling
52	532126975	Gear, 60 and 17 Tooth
53	532122682	Nut, Hex 1/4-20
54	532122683	Gear, Drive Pinion 17 Tooth
55	532122684	Bolt, Square Head
56	532122685	Washer 15/16 x .265 x .125
57	532122686	Washer, Spring Lock 1/4"
58	532122687	Pin, Roll 3/16" x 1/2"
59	532122652	Washer, Flat .62 x 1.0 x .030
60	532123062	Pin, Dowel 3/32 x 1/4
61	532123063	Seal, Grease
62	532126977	Washer, Head Spring Lock 1/4"
63	532126980	Assembly, Gear, Reduction
64	532126981	Assembly, Shaft, Input
65	532126976	Shell Durina-O Grease (20 oz.)
--	532121431	Transaxle Assembly Complete

NOTE: All component dimensions given in U.S. inches
1 inch = 25.4 mm

16 HP 44" RIDING YARD TRACTOR -- MODEL NUMBER PP16H44

SCHEMATIC

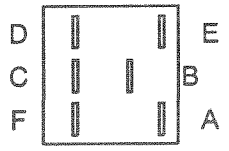


IGNITION SWITCH

POSITION	CIRCUIT
OFF	M + G
ON	B + L
START	B + S

PTO SWITCH

POSITION	CIRCUIT
OFF	B + E, C + D
ON	B + A, C + F

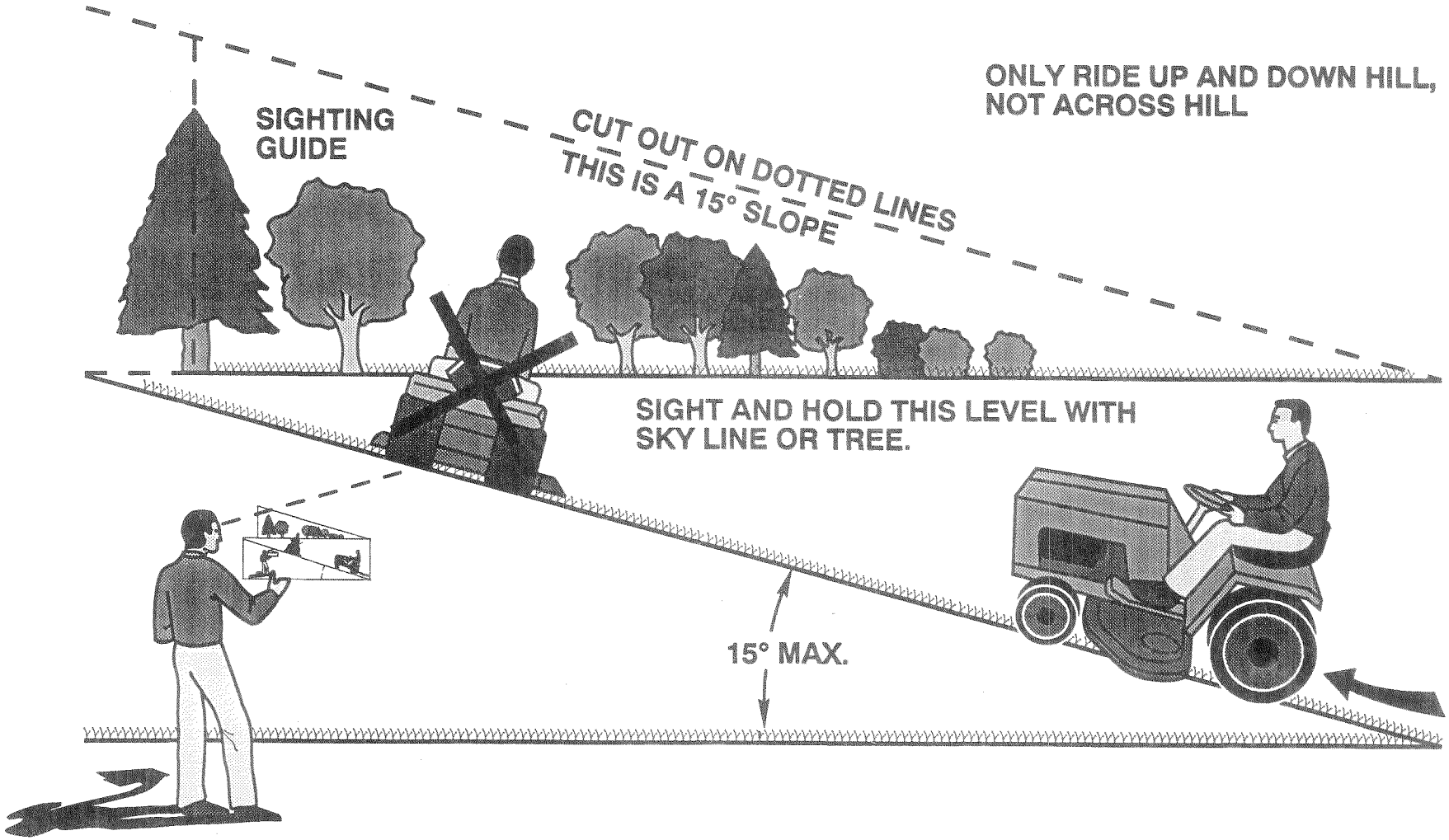


WIRING INSULATED CLIPS

NOTE: IF WIRING INSULATED CLIPS WERE REMOVED FOR SERVICING OF UNIT, THEY SHOULD BE REPLACED TO PROPERLY SECURE YOUR WIRING

SERVICE NOTES

SERVICE NOTES



Operate your Tractor up and down the face of slopes (not greater than 15°), never across the face. Make turns gradually to prevent tipping or loss of control. Exercise extreme caution when changing direction on slopes.

PARTS AND SERVICE

Your POULAN PRO product has been expertly engineered and carefully manufactured to rigid quality standards. As with all mechanical products, some adjustments or part replacement may be necessary during the life of your unit.

FOR SERVICE OR REPLACEMENT PARTS:

1. Consult your dealer/place of purchase.
2. Consult the yellow pages of your phone directory for the name of the nearest Poulan/Weed Eater Master Service Dealer (under "saws" for Chain Saws or under "lawn mowers" for Trimmers, Brushcutters, and Blowers).
3. For replacement parts, have available the following information:
   a. Description of the tool.
   b. Model Number.
   c. Description of part.

NOTE: Poulan/Weed Eater Division provides parts and service through its authorized distributors and dealers; therefore, all requests for parts and service should be directed to your local dealer(s). The philosophy of Poulan/Weed Eater Division is to continually improve all of its products. If the operating characteristics or the appearance of your product differs from those described in this Owner's Manual, please contact your local Poulan/Weed Eater Dealer for updated information and assistance. Always update your tool when improvements are made available, especially those related to safety. Parts and repair service are not available directly from Poulan/Weed Eater Division White Consolidated Industries, Inc.

POULAN/WEED EATER
DIVISION WHITE CONSOLIDATED INDUSTRIES, INC.
Shreveport, Louisiana 71139-9329

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